

GOVERNMENT SOCIAL SURVEY

Adult Dental Health in England and Wales in 1968

by
P.G. Gray, J.E. Todd,
G.L. Slack and J.S. Bulman

A survey curried out for the Department of Health and Social Security by the Government Social Survey and the andon Hospital Medical College Dental Schoo

LONDON

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CONTENTS

DART I INTRODUCTION AND BACKCROUND

Acknowledgements

			Page		
1.0	Introduction				
	1.1	Purpose of the inquiry	1		
	1.2	An outline of the methodology	1		
	1.3	Basic definitions for the non-dentist	2		
	1.4	Regional definition for this survey	3		
2.0	The	method			
	2.1	Coverage and design of the sample	4		
	2.2	The main sample from the Electoral Register	4		
	2.3	Ohtaining a random sample of young persons aged 16-20	6		
	2.4	The effect of extending the sample of young persons to include			
		21-year-olds	8		
	2.5	Planning an inquiry consisting of an interview followed by an			
		examination	9		
		Design of the questionnaire	10		
		The dental record sheet	11		
	2.8	The examination team	11		
		The dental examination	12		
		Training the survey dentists	13		
		The co-operation obtained from the public	16		
		Processing the data	17		
	2.13	Demand and Need for Dental Care	19		
3.0	Back	aground to dental health today			
	3.1	The school dental service	19		
		Before the National Health Service	21		
		National Health Service dentistry	22		
	3.4	Regional variations in population per dentist	23		

PART II PEOPLE WITH NO NATURAL TEETH 4.1 Regional variation in total tooth loss in 1968

4.0	The edentulous

4.2	Variations in total tooth loss with age	20
4.3	Variations in total tooth loss between the sexes	27
4.4	Total tooth loss and household social class	28
4.5	Total tooth loss in England and Wales compared with the	

United States of America 33 4.6 Total tooth loss before the age of thirty 34 36

4.7 The reasons for total tooth loss

5.0	Peo	ple who still have some natural teeth	39
6.0	Der	tal decay and its treatment	40
	6.1	The condition of natural teeth in adults	40
		Regional variations in the level of decay among adults aged 16-34	42
		The occurrence of decay	42
		Sound and untreated teeth as a measure of disease	43
		Regional variations in treatment among adults aged 16-34	46
		Filled (otherwise sound) teeth as a measure of treatment	46
		The distribution of decay around the mouth	51
	6.8	Distribution of decay around the mouth for two different age	
		groups	59
	0.9	The distribution of decay around the mouth according to dental attendance pattern	
		•	68
7.0		ı discase	69
		The gum conditions of adults	71
		Regional variations in gum disease	72
		Distribution of the gum conditions around the mouth	74
	7.4	Distribution of the gum conditions around the mouth according	75
		to dental attendance pattern	75
PAR	T IV	DENTURES	
8.0 The function of natural teeth		function of natural teeth	89
	8.1	Partial tooth loss and dentures	91
	8.2	Potential denture wearers, according to partial tooth loss at the	
		time of the survey	92
		Partially dentured persons	94
9.0	The	circumstances of total tooth loss	97
10.0		ure wearers	99
		The wearing of dentures by totally dentured persons	99
	10.2	The wearing of dentures by partially dentured persons	103
DAD	r v	MISCELLANEOUS	
		r factors influencing dental health today	
11.0		Treatment under the School Dental Service	109 109
		Dental attendance pattern for adults with some natural teeth	114
		The perfect mouth	116
		Private treatment	117
		The last course of treatment, for adults aged 16-34, with some	117
	11.5	natural teeth	119
	11.6	Cleaning natural teeth	125
		Preference for extractions versus fillings	127
		Attitudes to having dentures in conjunction with natural teeth	132
	11.9	Attitudes to having full dentures	135
		Relationship hetween childhood and adult attendance patterns	136
		The work load on the dentist	139

Page

PART III NATURAL TEETH

12.0 Conch	sions	143
APPENDIC	es	
Appendix A	People who were interviewed and not examined	151
Appendix B	The postal inquiry	157
Appendix C	The distribution of the number of sound, decayed and treated	
	teeth	159
Appendix D	The average number of teeth in each condition	163
Appendix E	Detailed figures on which the diagrams are based	179
Appendix F	The dental examination criteria	235
Appendix G	The questionnaires	239

Page

PART VI CONCLUSIONS

ACKNOWLEDGEMENTS

We would like to thank all the Dental schools that co-operated in this inquiry. We would also like to thank the survey dental examiners. They adjusted very well to extrying out dental examinations in circumstances rather different from those of a surgery or clinic. We would also like to thank the interviewers for taking on the additional task of being dental precorders.

Lastly we would like to thank all the members of the public who agreed to take part. Their co-operation made it possible to achieve a very high rate of dental examinations.

PART I-INTRODUCTION AND BACKGROUND

1.0 INTRODUCTION

1.1 Purpose of the inquiry

This report presents the results of a survey of a random sample of adults aged 16 and over in England and Walss. The survey consisted of an interview carried out in the home, followed at a later date, by a dental examination also in the home. The survey was carried out for the Ministry of Health* and was considered to the contract of the survey contract out in the dental field, in this country, on a national scale.

The terms of reference for the inquiry were to provide information about the dental health of the community generally and to establish whether there was any regional variation in dental health. If a regional variation was found it was hoped that some explanations for such a variation would also be found.

In a survey of this kind, organised on a national scale and hased on a random sample, it is possible to othatin information concerning the attitudes and dental state of a complete cross-section of the community. Such a cross-section includes that propertion of the population who rurely seck dental attention and who consequently seldom contribute to the statistics about dental treatment issued by the Dental Estimates Board.

The results of the survey are presented inity fully, and although we may, at men, state the choiven, the prevendowy elfathorous and the prevent, we bege that men, and the present of the

1.2 An outline of the methodology

The inquiry consisted of an interview followed at a later stage by a dental examination. Both were conducted in the home, but at different times. The persons to be interviewed were selected at random from the Electoral Registers for England and Wales. The initial sample was somewhat over 3,000 and some 12s Interviewers and 44 dentists were involved in the fieldwork, which was completed in May and June 1988. We obtained interview with 83% of the sample, and we examined 77% of the sample, that is 91% of those who were interviewed.

^{*}Now part of the Department of Health and Social Security.

Government Social Survey interviews made contact with the Individuals selected for the sumple and interviewed them. From the interview we obtained the Indonant's assessment of his own dental boattle, and some information about his dental holish and attitude. At the end of the interview, be was asked if the would be willing to brat a dental examination in the bonn. If permission dental returned, the interview was repossible for making the introduction and she then acted as dental recorder during the examination. By having the interviewer apar roll to dental team, we was able to carry over to the examination, the apport which had been established in the interview. In this way we managed to infinition the possible loss in response between interview and managed to infinition the possible loss in response between interview and mining the contribution of the possible one in response between interview and mining the possible loss in response between timeriew.

The interview lasted from 30 to 40 minutes. The dental examination took less than 5 minutes, but the whole of the second visit, including the introduction, and the departure, frequently took considerably longer than the examination time might imply.

A full description of the methodology involved in the inquiry will be found in Section 2.0.

1.3 Basic definitions for the non-dentist

Natural teeth

The full complement of tests for an adult is thirty two, sixteen in the upper is and attention the lower give. In functional terms, the frost at tench is both java and cutting or insisting tests, and the remaining five on each side, as the contract of th

The process of tooth loss tends to continue with age and the rate of loss varies for different people. Many people eventually have all their natural teeth extracted and replaced by full dentures. Once a person bas no remaining natural teeth he is called edentulous.

Dental disease and treatment

Dental disease can be divided into two main types. The disease which attacks the structure of the tooth, i.e. caries (decay) and the disease which attacks the supporting tissues around the tooth, i.e. periodontal disease (guan trouble). In addition to treatment for disease dental treatment may be required for conditions such as irregular tooth arrangements i.e. orthodontic treatment.

Treatment of caries (decay)

Teeth which are decayed can be treated in two ways. Either they can be extracted, or the decayed parts can be removed and the teeth filled.

Treatment of periodontal disease (gum trouble)

Periodontal disease occurs in different forms and degrees, and the treatment

required varies accordingly. In its most advanced state periodontal disease can necessitate the extraction of an otherwise sound tooth.

Orthodontic treatment (correction of irregular tooth arrangement)

In some cases where abnormal spacing or positioning of natural teeth occurs, dental treatment is required. It may necessitate the extraction of some teeth, and/or the fitting of a corrective device such as a wire hrace.

Extraction of natural teeth

Once an extraction has been performed, it is impossible to assess from carmining the most inferentral, whether extraction was made for reasons of earlies, periodontal disease, or as a part of orthodontic treatment. Some sound tetch may be extracted because left on this rows, they would not be functional, thus making extraction and replacement with a denture advisable. Text can be lotted as a restud of accidents, these being mainly from seath, of the contraction of

Teeth are not rigidly fixed in position in the jaws. Consequently once a tooth heen extracted, the remaining natural teeth may move and reduce or even fill, the gap from the extraction.

A denture

A destruct is a removable plate with artificial teeth. In this survey a person, who we are a full upper and lower plate is add to be a 'cotally destructed person, the aperson has one or more of his natural teeth together with a destruct, he is said to be a 'partially destructed person.' Partially destructed persons' range from someone with a destruct to replace two front teeth knocked out as a result of an endought, some one with a destruct to replace two front teeth knocked out as a result of an endought, some one with a destruct to replace two front teeth knocked out as a result of an endought, some and lower, firsted with destructs.

1.4 Regional definition for this survey

As has already been explained in Section 1.1, a major part of the terms of reference for this inquiry was to discover whether there was any regional variation in dental health.

The sample was therefore designed to allow major regional comparisons. We decided on an overall size of sample which would support a division into three or possibly four regions. Regional comparisons are very expensive in resources because a sample which is sufficiently large and widespread for the detailed analysis required is needed in each region.

It seemed most sensible to define areas which were combinations of the widely used planning projons. From available statistics, such as the population per dential, the planning region. London and the South East was custoding, and the planning region of the state of the properties of the properties of the properties because, we celleded on a region to include the planning regions Northern, North West, and Yorkshire and Humbersdae, and to call it simply the North: This produced as with no very well deduced regions with would be our main testing ground for regional violation. Their remained Wides, the desire you was a second of the proposed violation. The remained Wides, the desire you was to the two vergions interest, defined, and the sumple numbers

scarcely permitted a further division. Yet the geographical spread of the remainder seemed to call for two regions. We therefore combined Wales with the South West, and West Midlands with East Midlands and East Anelia.

Figure 1.1 shows the geographical boundaries of the regions used in this survey. They include the following planning regions.

Survey region Planning regions included

The North; Northern, North West, Yorkshire and

Wales and the South West; Wales, South West

Wales, South West,
Midlands and East Anglia; West Midlands, East Midlands, East Anglia
London and the South East:
London and the South Fast.

2.0 THE METHOD

2.1 Coverage and design of the sample

Our terms of reference covered the detail state of the whole of the population of England and While he there were a number of practical reasons why two groups were exhibited from the inquiry. Children, particularly young children, would have needed a different approach to overcome the problems of interviewing by proxy through the practs, and obtaining partenal permission for where the proxy through the practs, and obtaining partenal permission for some other cocasion through the obtained superact. Consequent date of the contract of the

Thus the population we set out to cover was adults aged 16 and over in private households.

For sampling purposes we were able to use the recently compiled 1968/9 Electoral Register* which provided an adequate sampling frame for adults aged 21 or over. We had then to devise a method for obtaining a supplementary sample of people aged 16-20.

2.2 The main sample from the Electoral Register

For the main sample drawn from the Electoral Register a two-stage sample design was used. An important consideration in determining the design was that our terms of reference called not only for national estimates but also for broad regional comparisons.

This, together with cost and organisational considerations, determined the type of first stage units used and their number. We chose to use parliamentary since such areas are easily identified in the Elector like the corresponding since such areas are easily identified in the Elector like the continuation of the contract of t

^{*}The adequacy of the coverage of the register is described in "Electoral Registration for Parliamentary Elections", P. G. Gray & Frances A. Gec.

Figure 1.1 The Survey Regions Midlands and East Anglia 5

influenced by the activities of one dental practice within them, but were small councils to wive duties too much of the cananting dental; the ine in travelling heavens nelected people. We decided that a sample of 50 constituencies out of 1645 in England and by the exist of the Conservative to Indianov vice at the last general election. Fifty constituencies were then selected with probability proportionates to the electrate out the previous Register. It was necessary to use the previous Register's electrate the content of the previous Registers and the content of the previous Registers and the content of the previous Registers are concessary to use the practice of the content of the previous Registers and the content of the previous Registers are concessary to use the practice of the content of the content of the formation content of the content of t

central cuantisations are supported by the same on the 1983/98 Register in the constituents after the constituents affected for our ansagin. From each constituents was decreased as a sample of named people who were selected with probability inversely proportionate to the electorization of the periode Register for that constituency. In this way the overall probability of selection of each individual over the two stages was required to the periode affective for the constituency. In this was required to the periode affect for the whole sample was about 2.07 This sample design results in approach to the constituence of the same of the sample was about 6.07 This sample design results in approach to the constituence of the same of the sample was about 6.0 This sample of the same of the sample was about 6.0 This sample was about 6.0 This sample of the sample was about 6.0 This sample wa

All the persons in this main sample could be preselected from the Electoral Register and the interviewer were given lists of named individuals when were to contact. But the Electoral Register only includes people aged 21 or more, therefore to complete the age range down to 16 years it was necessary to devise a method of sampling in the field for those aged 16-20.

2.3 Obtaining a random sample of young persons aged 16-20

The main sample, already described in detail, consisted of a sample of named individuals randomly selected from the Electoral Register but excluding all local electors and persons approximing the age of 21 but to young to vote at the start of the life of the Register. This main sample was restricted to individuals in nrivate households.

It was therefore necessary for the supplementary sample of 16-20 year olds to come from private households also, but no convenient list of persons aged 16-20 exists from which a sample can be drawn directly. It was therefore necessary to obtain a sample of private households and select all those persons aced 16-20 from such households.

It was possible to obtain a sample of private households from the main sample of individuals, taking the households that each person brief on However the selected individuals had been pixed with equal probability and therefore the households that they lived in would have a chance of inclusion proportionate to the number of names, from that household, on the Electral Register. A sample of households that have been a superior of the sample of the sample proportional to the sample of the sample of the sample of the sample proportion with only one person on the Register. Before such a sample can be used it must be reveighted to correct this his.

The reweighting method used was as follows. A household, as defined for Government Social Survey purposes, always has one person and one person and who is defined as the head of household. The chance that the named individual selected for the main sample is the head of household, is proportionate to the

number of adults in the boundhold who were on the Bacteral Register. Thus the chance that the percon electric filt mean image is the head of boundhold when only one name from that household was on the Register is I in I. The chance that the person selected in the main sample is the head of household when there were there manns from that household on the Register is I in I. Thus if we said including only hose households in which the named person for the main sample was the head of household; then we shall correct the hias. For example, if an including only those households in which the named person for the main sample was the head of household, then we shall correct the hias. For example, if an including head of household, then we shall correct the hias. For example, if an including head of household, then we shall correct the hias. For example, if an only the person has the contraction of the head of his household, then the household had three chances of heining selected. But if we only only a one in three chance of this belong, and we thus redesires the shalance.

This method of obtaining an unbiased random sample of households from which to select the young persons has the additional advantage that the number of young persons selected will be the right number of persons aged 16-20 compared with the size of the named person sample selected from the Electoral Register.

The reason is that the household sample was obtained from those named insidius who were found to be head of household. These heads of household rose is the right perportion among the individuals randomly selected for the main sample. The young persons were selected from a unblased sample of households, Since there is a one to one relationship between these households and the number of heads of household, then the number of young persons agad 16–20 will be the right proportion for the number of named individuals selected from the Electoral Register.

We added a further refinement to this dosign. From previous survey experience we knew that Electoral Register was most deficient at the younger age range. We therefore extended the sample of young persons to include people aged 21 last hirthiday, as well as hone aged 16-20 last brichay. We later checked whether these 21-year-olds were already on the Register. If is, they had arready had a class or of inclusion in the main sample, and were triperfore excluded arready had a class or of inclusion in the main sample, and were triperfore excluded as Y voters (too young to vote at the start of the life of the Register) they were included in the supplementary sample.

Obtaining a sample of young persons from households connected with the main sample has the disadvantage that all the young people in the Inquiry have another person, in this case the head of the household, heing interviewed on the inquiry as well. On the then shall, this method has the advantage of being fairly interpensive way of obtaining a sample of young persons in private households. If the sample of young persons was to be completely independent of the main sample then the cost of obtaining the data for this age group would he very high indeed.

The sample of young persons was thus dependent on what circumstances were found when interviewing the individuals for the main sample. This process of field sampling, whatever the details of any particular scheme, is very difficult to control accurately.

In the population of England and Wales the 16-20 year old age group is about one tenth of the size of the age group 21 and over. The main sample comprised 3.207 individuals asset 21 and over, of whom 2.707 (84%) were interviewed. Young persons were only picked up when the main sample informant had been interviewed and could provide information about other household members. Thus we might have expected to have picked up 10% of 2,20%, or 20% people agal 16–20. This estimate assumes that the non-respondents from the main sample include the same proportions of head of household and votung persons as those who were interviewed.

The final number of 16-20 year olds selected was 233. This was not as high as might have been expected, but response was good from those locused. There are several reasons why the sample is deficient for this group. Firstly, private bouncholds made up entitiny of persons under 21 years of any even mixed by written of their exclusion from the Electoral Register. Secondly, a higher proportion of this age group are in institutions of once kind or another, shooled, solleges, training centres, hospitals and so on. Finally, opprating a sampling process in the field is always difficult and increases the chance of human error.

For example, when we checked the household composition of our main sample, we found a high proportion of 15-year-eds and a low propertion of 16-year-eds. This could have occurred by chance, hat we decided so carry out a find check on a sub-sample of households to verify gas. Some errors were problem arose through a mismederstanding which led to variation in interproblem arose through a mismederstanding which led to variation in interproblem arose through a mismederstanding which led to variation in inprovided on the interview assumed, on their own voltion, that married women in the age range 16-20 could not be counted as young persons and therefore did not interview then. Fortrantartly the presist conprovided the properties of the properties of the properties of persons and therefore did not interview then. Fortrantartly the presist constanting those agod 21 last britchly. The error here was minimized since those already on the Register were to be rejected in any case.

2.4 The effect of extending the sample of young persons to include 21-year-olds The refilmenses introduced into the sample of young persons necessitated a change of definition for the interviewers, which was not operated altogether associated by the commentary sample of young persons is chosen, only people aged 20 and under are required. In this scheme, however, we also included people aged 21 also introduced you should have been picked up.only 34 were. In some cases it appeared that the change in definition was responsible for the omission, but in most cases it occurred for the reason already mentioned, that somehow the misconception crept in that a young while date or constitute a young person. Where the bend of household was a man with a wife aged 21, the wife, who should have been of household was a man with a wife aged 21, the wife, who should have been would subsequently have been rejected as being on the Register already.

Thus 34 persons aged 21 were picked up in the supplementary sample. Ten of these were found to be on the flectoral Register and were therefore rejected. This felt 26 in the sample. The main sample yielded 22 persons aged 21, although there were 47 aged 22, and 58 aged 23. By supplementing the main sample, we finally obtained 46 people aged 21, which is much nearer the correct size for a single year age group.

The cost of improving the sample of 21-year-olds, heyond that of interviewing the additional 24 persons, was the expenditure on interviewing and examining the 10 who were later rejected when they were found to he on the Register already.

2.5 Planning an inquiry consisting of an interview followed by an examination

The survey was to comprise an interview which would obtain information about dental attitudes and inhish, and a dental examination to assess the present state of fental health. At the outset, consideration had to be given to how these upers of the inquiry would be hest organised. If a measure of dental health is to be detailed from the examination and used in conjunction with the init of the obtained from the examination and used in conjunction with the information oblinated denting the interview, but not two rouns to a does together demand of the observation of the observatio

This raises the question of whether the interview and the examination should he included in a single visit. This could he done in two ways. Either the whole interview could be conducted with the dentist present and if permission was given the examination could follow, or the dentist could be on call to do the examination at the end of the interview, if the informant agreed. The first alternative would be out of the question. It is highly likely that the presence of a dentist during the interview would influence the replies given. However the overriding disadvantage for both alternatives is a practical one. Having the two parts completed at the same visit would involve the dentists in considerable periods of non-productive waiting. The interview took hetween half an hour and an hour, whilst the examination itself took less than five minutes. The interviewer was concerned with all the people in her quota, but the dentist was concerned only with those who were interviewed and agreed to have an examination. If both had worked together all the time we would have needed as many dentists as we had interviewers. If on the other hand, the examinations were done at a separate visit one dentist could work with several interviewers.

If two separate visits are involved then the question of who the personnel bound he at the second visit arise. Once an interviewer has constanted an about the second visit arise. Once an interviewer has constanted an elementary of the contract of the con

When two parts of an inquiry are to be carried out on separate occasions then his introduces the risk of losing some people between the time of the interview and the time of the examination. Steps must be taken to reduce this as fir as possible. In this inquiry two hencure probably contributed, Firstly, as we have possible, in the inquiry to the circumper probably contributed. Firstly, as we have the possible of the property of the property of the property of the third maintaining the rapport she had achieved on the first occasion, Secondly, the interviewer and density blaumed regular and frequent sessions of examinations throughout the field work period. Thus the time which elapsed between the interview and examination was minimised. In addition, as far as possible, appointments were made for the examination in terms of what day it would be and whether the mornine, afternoon or examine was best.

whole the data wheelene in sensing distribution of recently was been.

At the beginning of each queut of week interviewer speed a certain measure.

At the beginning in the control of the

2.6 Design of the questionnaire

The people in the sample were expected to vary from one extreme to the other, from those baving all of their natural teeth to those who had none. Clearly whole blocks of questions would be inappropriate to some sections of the population. A single questionnaire would therefore have been very hulty and difficult to operate in the field. In seeking for broad divisions, three groups of people seemed to have somewhat different needs and experiences.

- People who rely entirely on natural teetb and have never bad any form of denture.
- People who bave some natural teeth, but wear or bave worn a partial denture.
- People who have no natural teeth, most of whom bave a full set of dentures. Accordingly a separate questionnaire was designed for these three dental status groups. A common introductory questionnaire was used to establish the dental status of each person.

People with natural teeth only, were asked about the state of their teeth, their attitudes to treatment and pointedly to the thought of dentures. Details were obtained about their dental visiting habits, and the last course of treatment they had undergone.

Those without natural teeth were asked about the condition and efficiency of their dentures, if they had any. We collected information about the circumstances under which the last of their natural teeth were extracted e.g. the number of teeth extracted and whether partial dentures were over hefore full dentures were noeded. Again we obtained details of their last course of treatment.

Informants in our partial denture group were given the relevant questions for natural teeth and false teeth, with some additional questions about the history of their partial dentures.

When designing the questionnaires, it was necessary to keep in mind that the interview would be followed by a dental examination. We could not afford to exhaust the informants' good will and the length of the interviews was planned accordingly.

2.7 The dental record sheet

It was planned from the outset that the data collected would be tabulated with the use of a computer. This was preferable to using card sorting equipment, since a far greater amount of detail could be fed directly on to magnetic tape and regrouped during the process of tabulation.

The dental record sheets were designed to contain three types of data: from pool with some natural teeth, information was recorded about each teoth and its surrounding tissues, and from denture wearers, information about their dentures and any associated gum inflammation. In addition personal details such as age and sex were recorded.

The detail with regard to natural teeth was extensive. Each tooth or tooth space was recorded separately. Any fillings and deeny present were recorded for individual tooth surfaces. Where gingivitis, pocketing, calculus, recession or loose teeth occurred, it was recorded against the teeth concerned.

The examination of the natural teeth was conducted with the examiner calling out the information in code to the interviewer for recording. The information regarding dentures, however, was recorded by the examiner himself.

One coding process was carried out before the data was put on to magnetic tape. The details that had been recorded for each tooth surface were summarised to give the state of health of each tooth. In this way a summarised classification was immediately available once the data had been put on to magnetic tape.

In addition to this summarised data all primary information was put on to magnetic tape in full detail. In this way, the ultimate grouping and presentation of the examination data could be determined more sensibly, on a basis of the variations found to exist. The record sheets were printed in blocks of interleaved automatic carbon paper so that two copies were obtained. A copy of the layout of the record wheet appears in the Appendix.

2.8 The examination team

An examination team was needed to carry out the work-someone to make the necessary introductions, a dentist to do the examination, and a dental recorder to record the information. It was realised at an early stage of the planning, that it would be of considerable advantage if the person who made the introductions at the examination was the person who had conducted the original interview. In this way the rapport achieved during the interview would be carried over to the examination situation. While the interviewer explained the procedure to the informants, the dentist would be left free to prepare for the examination. The next step was to record the information called out by the dentist. Since trained interviewers spend a lot of time recording information on documents of varying types, it was decided that resources would be best used if they were trained as dental recorders for the inquiry. Part of the briefing was therefore spent training the interviewers to do this. For the last part of the training course the interviewers and dentists were assembled, and a group of volunteers were examined under field simulated conditions. This save the dental teams a chance to practise working together before the main fieldwork.

Thus a two-person team was sufficient to cope with the dental examination.

and to provide the further advantage of maintaining continuity between interview and examination.

2.9 The dental examination

The dental examination was carried out in the person's own home. From privious survey experience we knew that a much higher level of response would be achieved if the dental team visited those to be examined rather than if we have a survey of the control of the

Not only are the conditions in a "home" examination very different with respect to scaling and lighting but the amount of equipment that the dentist can use is limited to that which is easily portable. The standard equipment for the survey dentist was a portable head light, a dental mirror, a few dental instruments and some sterilising equipment. These all packed away into an attaché case.

Since the amount of equipment that could be earried round by the dentist was limited, the scope of the examination was limited to the level of disease that could, in such circumstances, be detected. It is well known that with the use of X-rays, in addition to clinical examination, the amount of active decay that can be detected is considerably increased.

In this survey it was considered more important to obtain a high proportion of examinations at the 'home' kwel than to suffer considerable loss of response by asking people to attend a centre for examination.

We did not know at the planning stage that we would find a regional difference in the use of X-rays in the General Dental Service. We had not therefore anticipated that the lower level of detection of decay by clinical examination would have such a direct effect on the proportions of apparently sound and untreated teeth found in the different regions.

Some steps were taken to make the "home" examination as standardised as possible. Firstly, of course, the dental examiners were trained in a standard form of examination (see next section). In addition the person to be examined was encouraged to sit in an upright chair rather than an easy chair for the examination. Also the dentist had a nortable headlish to assist his vision.

The role of the interviewer during the dental examination was initially to make the introductions and explain what was needed for the examination, and then to he the dental recorder when the dentist called out the examination codes. This left the dentist entirely free to concentrate on the examination.

For people with natural teeth the examination consisted of examining and recording, for each tooth position, whether the tooth was present or not. If it was present, then information was recorded as to whether the tooth was sound, abaving had not restment. If it was not bent the presence of fillings and/or active decay were recorded for the tooth surfaces on which they occurred. Also the material of the littings, analigns, milster or gold was recorded. If the tooth was material of the littings, analigns, milster or gold was recorded. If the tooth was recorded to the contract of the c

disease. This part of the examination is less easy to standardise as the diagnosis of the different gum conditions that were to be recorded, is very difficult.

For those people with dentures, either partial dentures or full dentures, the dentist made an examination and assessed their comfort, their fit, their physical condition and the care with which they had been looked after. He also assessed whether the dentures were causing any inflammation of the gums.

In addition any major feature of the mouth was recorded, for example, eleft lip, eleft palate, etc., but these occurred very rarely.

This fairly detailed examination took less time than one might expect. With training and practice, and with the help of the interviewer as dental recorder, a dental examination could be completed in less than five minutes.

There were forty-four dentists involved in the survey and obviously one of the problems was training them all to use a method of examination which was suitable for the 'home', a method somewhat different from that to which they were probably accustomed.

2.10 Training the survey dentists

The collection of dental data by examination, of a sample covering England and Wales, is a formidable task not previously attempted in this country. Basically there are two possible methods. Either a large number of dentities can be used to do a fairly small number of examinations over a short price of of time, or a few dentities can be used to do a large number of examinations over a long period of time,

Although recruitment is a difficulty, there are distinct advantages in using a large number of dentains. The work is completed rapidly and the results are not only available acoustry, but relate to the same point in time. The risk of a dental related of the control related of the cit is proposed over a larger number of examiners. The relationship of one dentait by a reserve in cases of illness or audden take of availability is its difficult with a large point in its easier to indentise who could make themselves sort of examination that it is to be analysed in conjunction with interview material, the interview and examination must take place as near together as possible. With dental examination data is to be analysed in conjunction with interview material, the listeriew and examination must take place as near together as possible, with

None-bess, this method does have some disadvantages. Although the directs of individual variation are spread by having a large text, this does not mean that every effort should not be made to reduce variation to a minimum. Training a large number of doesits to carry out a specific cannisation as uniformly as possible is a difficult task. Essensier variability in this field is well recognised not it can be reduced by a horough training course. The preclamatory of the properties of the properties of the properties of the extension. The range of assessments made as the outer is hely to be quite well, but with training fir argentement can be reached.

Another factor which contributed to the decision to use a large team of examiners was that the dental schools in England and Wales might act as local controlling headquarters for the examinations in their area. Accordingly

controllers were nominated by the dental exhocis and this provided a very useful celluring house present whos housed difficulties note. Intillay all the dental exhocis in Ingiguia and Whats were racked if these wave present a controller was part in the dental properties. As a result of dental seven because the properties are part in the dental properties. As a result of dental seven recentral. The dentals came from somewhat different backgrounds. Some were normally engaged in anotherit work, some other works are controllers were retired from the forces. This variation is background mental that while some of the dentals were quite used to examining large numbers of people or a fairly simple hands, other were could used to examining large numbers of people are a fairly simple hands, other were could used to examining large numbers of people are a fairly simple hands, other were could not be examined parts protect prior to

The major purpose of the training course was therefore to explain the method and criteria for the home' examination to be used in this inspirity, and during the course the dentities practiced this form of examination and learned the cooks which they were to acid to the precorder, famility, in draw standards to the which they were to acid to the three colors. In this, it is a constant on the dentities were asked to assess, on their own criteris, the amount of active deeps in a series of flocks of mounted examination criteris. This demonstrated the conceiving the region to common translands where a large nature of dealists were received freelings to common translands where a large nature of dealists were received for the common translands where the control translands to the control translands of the control transla

Idaily, all 44 dentities would have carried out this examination on the same group of subjects. This was not in fact, possible for organisational reasons. These were two three-day training courses, as the number of dentitis to its first that the property of the country of the

The amount of variation which occurred in the number of tech found in the fifteent conditions is shown in Table 2.1. The figures show that as regards of the first of the first of the first as regards and the first of the first

Although a few minor alterations in method might improve the accuracy of the data about missing and filled teeth the variation is already very small. The measurement of decay is less satisfactory, when these discrepancies were looked at in detail it was not so easy to detect explanations of why variations had occurred. A lot more investigation of the problems of training dentists for epidemiological work must obviously be carried out.

It must be remembered, however, that these examinations were carried out during the training programme and therefore contributed in the training process. It is very difficult to estimate how comparable these examinations were with the ones carried out during the fieldwork. The subjects in the training course were detail students and as such were obviously not representative of the general monitation, either in are distribution or in dental awareness and obbaviour.

TABLE 2.1 Examiner variability

	Missing	Total filled	Filled otherwise Sound	Filled and docayed	Decayed not pre- viously treated	Total decayed
	-	Subjects	1-10, exam	ained by 2	2 dontists	
(i) Mean (ii) Variance (iii) Standard deviation (iii) ÷ (i)	28-8 1-3 1-1 0-04	138-3 2-4 1-5 0-01	132-8 26-2 5-0 0-04	4-5 26-7 5-2 1-15	4-3 14-8 3-9 0-89	8-8 74-9 8-7 0-98
		Subjects	11-20, exa	mined by 2	2 dentists	
(iv) Mean (v) Variance (vi) Standard deviation (vi) + (iv)	32-8 0-2 0-4 0-01	96-7 2-5 1-6 0-02	91-0 10-0 3-2 0-03	5-7 12-0 3-5 0-61	2·4 3·7 1·9 0·78	8-1 28-2 5-3 0-65

For example so few teeth were found with positive gum condition among the students that no measurement of variability among the examiners could reasonably he made. The students also had fewer missing teeth, more filled teeth and fewer decayed teeth than were found on average among the survey sample of people with natural teeth.

As an additional text on examiner variability the examiners and the same volunteers were asked to return a short time after the end of the fieldwork to repeat the examinations. The examiners did not know in advance that such a repeat process was to be carried out. As a result of this repeat performance it was again found that the main variation, and the repeat performance it was again found that the main variation and the repeat performance that the part of the variation was between the different examiners on both occasions.

On the final day of the training course the dentists met the interviewers with whom they avere to vork. The complete procedure for interviewing and examining was demonstrated and then the dentists and interviewers practised working expetter on a group of volunteers. This practice session and the volunteers involved were completely unrelated to the test examinations described above. The field were completely unrelated to the test examinations described above.

2.11 The co-operation obtained from the public

The first step in securing a reliable sample is to have an adequate list of names and addresses from which to draw a sample, and an efficient application. Nevertheless the representative nature of the achieved sample can still suffer unless a high proportion of the people selected is willing to co-operate. In this survey it was important that they co-operated in both the initial interview as of very limited use.

To obtain the initial interview we had to concern consulves with three main sources of possible non-exposure. These word the people who would be difficult to find at home; and however the problem of th

The number of persons who were not contacted because they could not be found at home, was kept to a minimum by the normal Government Social Survey practice of insisting that interviewers should make at least three calls helore ahandoning an address. The loss on this account amounted to only 1-4% of the selected sample.

We also took steps to cut down the loss in response artising from people having mood from brine rejestent delaters. This was done by curring out the having mood from brine rejested and the step of the people would have moved in the sine months or so since rejestation. Since people would have moved in the nine months or so since rejestation. Since comparatively their distance, we instructed our instruviewers to follow up apone in the visionity. Furthermore, we enalousted to interviewers to follow up apone in the visionity. Furthermore, we calculated to interviewer to follow up only the continuous of the continuous of people who had moved greater outper continuous. He was addressed of people who had moved greater the unusually foreigness of 40% of the scheed sample. Other annovidable losses brought the rate of faither to secure an initial interview was to the other 48%, a very high there of co-operation of the continuous continuous and the continuous of the continuous of

Our success in obtaining the dental examination depended in the first place on whether the interview obtained permission to return with the dentist. The need for this further visit was raised by the interview; at the end of the interview, when a good relationship had been established with the informant. A considerable amount of persuasion was needed to overcome the public's reluctance to undergo a dental examination. Having the interview as contamination relucion to the interview are contamination for the interview are contamination and the interview and the interview are contamination and the interview and the interview are contamination and the interview and the inter

5.1% of informants proved unwilling for the interviewer to return with the dentist.

In an effort to prevent further losses, we tried to keep the interval of time between the interview and examination as short as possible. Seventy-one per cent or interview and examination as short as possible. Seventy-one per cent or interview and sevent time with 1-1% of the selected sample and failed to make contact a second time with 1-1% or the selected sample and further 1-7% refused to be examined when the interviewer returned with the dentist.

Thus the proportion of the selected sample who were finally examined was 76-9%, being 7-9%, less than the 48-8% who gave an initial interview. For an examination of such a personal nature this is a very high level of co-operation and we would like to thank the members of the public who agreed to have this examination. Further details about the people who were interviewed but not examined can be found in the Appendix.

TABLE 2.2 The co-operation obtained

No initial	140 47 33 19 27 9	7.3 40 14 10 05 08 02	15-2
Initial interview but no dental examination informant refused to enake appoints for a dental examination informant declined when interviewer returned with the dental informant not contacted a second time for dental examination		5-1 1-7 1-1 7.9	84-8
Interview and Dental Examination obtained	2658	76-9	
Total Sample Selected	3461	100-0	

*Wrong address visited, schedule lost in post, etc.

2.12 Processing the data

Once the field work was completed the information on the schedules was coulded. This involved checking that codes were ringed on questions where pre-codes were already on the schedule. For some questions additional codes were used to classify anwaves which did not fit the pre-codes provided. In addition coding frames were drawn up for those questions for which answers bad been recruded vertaint. The coding process is fairly time consuming since the operations carried out are extensively checked to minimize inconsistencies which would otherwise involve conditionable delays at the computing stage.

When the coding was completed the information on the schedules was transferred to punch cards. The detail involved in the examination data resulted in a large number of cards being necessary. Every person with natural teeth but no partial dentures had 3 eards recording the interview data and 4 recording the examination data. For people with natural teeth and partial dentures there were 4 cards recording interview data and 4 recording examination data. For people with no natural teeth there were 4 cards from the interview data and one for the examination data. The actual number of cards involved was thus close on 19,000.

The information on these puoch cards was then transferred to magnetic tape for use on the computer. It was then possible to use the standard programme for survey analysis which has been developed by the Governmot Social Survey and which has the facility for including more specialized programming where necessary. We were very fortunate to having staff available throughout the period of only in the companion and curry out any extensions that the period of only in operate this programme and curry out any extensions that

The interview information did not present any particular difficulties, as it was minimize in form to other inquiries based on interviews. The information recorded in the examination provided more of a problem. Data had been collected from the very large, but well do see that the consumers in bother transferring to magnetic tape, as this would have resulted in loss of detail. So it was proceded and transferred in the fall detail in which it has been collected. This provided in sundying the properties of the consumers in the provided and sundying the price paid for this facilities was the volume of computer instruction required every time the examination information was to be out. During the process of analysis some of the more obvious groupings were governed and strong, has any design from these rowless of a first sub-rowines which took still

One process carried out at the coding stage did help in the analysis. Each took was given a summary code decoting its state in relation to decay. This was a summary of the information which existed for each surface of each tooth.

The number of items of information which were available for analysis was very large indeed. Handling this quantity of data, without access to a computer, would be very difficult and very time consuming. The computer facilities which were available were used extensively.

It is fairly difficult to estimate the sumber of tabulations required, as much of the need is determined by the variation froud to exist in preliminary tables. As seen as more than one was trained as the same than the account the number of ulabels As seen as more than two variations are taken into account the number of under the contract of the con

The effort and time which was expecded io putting the material on tomagnetic tape in its full detail has heco amply rewarded by the flexibility that resulted. The decision ahout groupings would have heen very difficult had they had to he made in advace of examining the results.

2.13 Demand and Need for Dental Care

Demand and Need for Dental Care—a socio-dental study J. S. Bulman, N. D. Richards, G. L. Slack, A. J. Willcocks

J. S. Bulman, N. D. Kichards, G. L. Slack, A. J. Willcocks As mentioned in the introduction, the above report is the result of a two-town study of dental health, and was the forerunner to the present national inquiry.

study of dental health, and was the forcrunner to the present national inquiry. When the two-town study was started, no-one in this country had previously tested out the possibility of a dental inquiry involving an interview, followed at a later date by a dental examination. The feasibility of this undertaking was thus tested and information collected about the population in the two places.

When a study is confined to two towns, the places selected are usually purposively picked, since two towns picked at random would not give an estimate of the nation unless all towns were similar. Consequently they are chosen because they are known to be different and thus a close study can be made of contrasting populations. Unfortunately it is usually the case that in advance of the study itself, and in the absence of national statistics, it is not easy to determine which places will be contrasting with regard to the subject under investigation, to this case of the study itself, and the subject under investigation, to

It is survive, therefore, ever to make nutional criminate from a study of two sowns, and we authors pointed out and retuned to do themselves. However, the temptation to draw vanisonal conclusions when no other data was available has proved to operat for others. Nutdoned students have appeared in the press and proved to operat for others. Nutdoned students have appeared in the press and from the national inquiry, here example, in Salahhury 2½ of people agad 21 and over server found to be destudents. In Dailtalipus, the people agad 21 and over sity. New would therefore estimate that about 12 million people in flagland and Wales have no natural each, a figure that the proposition of the server of

3.0 BACKGROUND TO DENTAL HEALTH TODAY

The present level of dental health in the community is not necessarily a reflection of current policies. It is more a reflection of past policies and the dental attitudes of each person and the dental treatment each person has had over the years, in presenting data about the contemporary state of dental health, in the past and with the changing attitudes towards dentistry, both of those receiving treatment and of those providing dental treatment, both of those receiving treatment and of those providing dental treatment.

Though prevention is best, if conservative treatment is to he successful, conservation must be started when the teeth are first decayed, that is among children. We therefore look first at the specialist service provided for children under the school dental service.

3.1 The school dental service

The school health service, and through it the school dental service, has been in operation in some form since 1907. Every two years the Chief Medical Officer of the Ministry of Education publishes a report called "The Health of the School Child" in which developments in all spheres of the school health service are described.

As far as details health is concerned the service appears to have been very understuffed since the inception of the scheen. It is difficult to judge exactly who the patients are and town many there are because children have three sources of treatment. They can be treated by a private density, or since 1948 under the National Health Service, or they can obtain their treatment through the school density service. The school beaths service is engagined separately for its calculates. The principal school density of the proposal for the school dential service, which forms part of the school dential service, which is the school dential service, which comes part of the school dential service, which can be supposed to the school dential service, which can be supposed to the school dential service, when the school dential service, which can be supposed to the school dential service, when the school dential service is a school dential service, when the school dential service is a school dential service, when the school dential service is the school dential service and school dential service is the school dential service and school dential service is the school dential service and school dential service and school dential school dential service are school dential ser

In 1956-57 a description of the first fifty years of the school dental service was included in the Chief Medical Officer's report for which the following was the introductory naragraph.

"From the earliest days of the School Medical Service the state of children's tech has been investigated in many tool education andirently areas with an interest and altereschess which indicate no lack of appreciation of the constraint problems of the contract problems o

It is of fasteres to trace the stiftude towards fundamental factors through some of the early reports, for these are the stiftudes which will have influenced the detail hackground of many of the people in our sample." Although the quotations refre to the school detail service, there was in the early years a considerable number of dentists in general practice working in the school service on a sessional hasie, it is probable, therefore, that the general view expressed

The Health of the School Child: 1939-45

... "teeth which are technically saveable should not as a rule be filled where there was evidence of persistent neglect of oral bygiene on the part of the child." "the number of children who should be treated by conservative methods should be literated by conservative methods should be literated."

The Health of the School Child 1954-5

"in a number of the nertier reports in this series, complaints has been had on the importance of making the best use of a limited school details staff and the antisements of certain authorities make it clear than, with the right seation, a detail officer can provide children; the arrail numbers will depend to some center on the attitude of the strood population and of their posents. Any policy discreted towards this cod must sirvolve some conservative trainment has consensatively now advocated by the Multicary. Although

^{*}The passages deal mainly with the unending problem of too few dentists and too many children with decay.

adequate conservation of children's teeth is regarded as the hall mark of a fully developed dental service, it should not be forgotten that the prevention and relief of pain and sepsis are of primary importance to the growing child."

The Health of the School Child 1956-7

"To face equarely the problems arising from an insufficiency of destal officers and to adordingly the type of service provided is cound administration; to office stubbornly to procedure based on an assumption of ample satings and in the best interests of the procedure based on an assumption of ample satings and in the best interests of the challenge insuffice the set of the procedure the following passages from the annual reports for 1956 of two principal school details officers deserve coulderation:

(i) "The aim, therefore, has been to provide the greatest number of children with urgent forms of treatment, such as relief of pain and the elimination of gross disease." (Stoke-on-Trent).

(in "The ratio of filling to extractions (8:3) is perhaps the best indication of the policy followed here in Oxford of concentrating the limited means available on conservative treatment, giving a limited mumber of children the fillest possible treatment while offering an emergency service to the rest of the school population. This appears to be the only logical policy but is clearly entirely uncantalisation; "

The control of the co

The Health of the School Child 1964 and 1965

	Number of pup
	per dental offic
1959	6892
1960	6835
1961	6386
1962	6012
1963	5839
1964	5756
1965	5760

""reference has a fready here made to the considerable variations from the average national staffing position and it is unfortunately the case that is those zeros where there is a thortage of school dental officers there are also relatively flow general dental practitioners. An extreme instance of this is described by Mr. H. E. Grey the Principal School with the production of the produ

So we have a picture of the school dental service and the scarce resources by which it has been plagued. The situation has resulted in recommendations of priority which have been variously interpreted within the service.

3.2 Before the National Health Service

There is not a great deal of data about dentistry before 1948 but from some of the comments made at the time it would seem that adult dental health consisted, for the vast majority of people, of the relief of pain. The method most commonly used to achieve this end was extraction.

The cost of any dental treatment fell on the individual. The cost of conservative treatment was high but the cost for extraction comparatively low. The cost of dentures must have been fairly high but people seem to have regarded such expenditure as a last cost before having no more dental trouble.

From 1911 onwards there was the possibility, if one came under the National Health Insurance Scheme, of getting financial aid towards the cost of dental treatment. The Scheme was administered by soo-profit making concerns called approved societies which were often as part of a Friendly Scorey or Union or some other association of people with common interest. If the approved societies members were at lateral to the proposed societies members were at lateral to a few parts of the proposed societies members were at lateral to the contrast which could be incorporated in contrast to the contrast which could be incorporated in terminations. Each societies when the contrast were described in the contrast of t

Thus destirty under the Nutional Health Insurance Scheme vide with other additional hendies used as ophthalised requirements, and with other alternatives such as spending the accumulated surplus on higher tickness hendies. In any cases the Scheme only overed certaint anageriest of employed persons, so many cases the Scheme only overed certaint anageriest of employed persons, in summer of the second of the control of the control of cohers in the community a large number of mutual hendie groups grew up to which individually paid a certain amount each under the Hopfield Schridge Pendiest, of the Control Schridge Schridge Australia and the Hopfield Schridge Pendieston.

Some dentists organised their own groups and had patients contributing weekly amounts who were then provided with treatment when they needed it. Other people, who were not so organized, paid the dentist for necessary treatment at the time when it was required. In addition to the dentist is private practice there were some industrial clinics. Also some free hospitals and some mission clinics provided dental trantment, mostly in the form or freiler from pain.

3.3 National Health Service dentistry

National Health Service densistry began in 1988, organised on a contract hash with parametar by fee per line of service. Any densitt who wishes to carry out work under the National Health Service has to be registered with his Local Executive Council. He is not restricted to carrying out National Health Service work only but can allot his time between private and National Health Service work as he sees fit.

There are two types of treatment which can be carried out under the Heidhl Service. Firstly there is emergency treatment for the relief of pain. A dentist can carry out such treatment without any responsibility beyond the relief of pain. Scoodly there is a construent all standers in which the dentist undertake to make the high tendertake to make the pain of the second treatment of the second required a new contracts if stream up. The dentist is, however, in no way obliged to make a subsequent contract with a pastient if he does not wish to. Not is the patient obliged to now florate dentist in the contract from the same dentist. Thus a dentist can, the wishes, specialise in the forms of treatment which he is prepared to do under the Nitsonia Health Service, in such a case the would not accept the contract of the second second treatment of the second of the second interests the dentist usually tries to hald up a practice of people who will attend the surgery regularly for treatment. The goodwolf which he halds up in this way is often misinterpreted by the public who think a dentist has a list of patients for whom he is responsible, as with the general medical practitioner. With National Health Service dental treatment, there is no such responsibility.

With the advent of the National Health Service, restorative dentistry was for the first time, in theory anyway, generally available. At first it was free of charge and later a standard basic charge was introduced for all except privileged groups, together with charges for certain items such as false teeth and bridges.

3.4 Regional variations in population per dentist

The Dental Estimates Board in its annual report includes a table giving gipers of population per dentist on a regional basis. Until 1965 the regions used were the Registrar General's standard regions. In 1966, however, the regional definitions were changed to those of the economic planning regions. There is therefore a discontinuity in the series and we use the 1965 situation to compare with the position at the benshinned or the National Health Service.

TABLE 3.1 Figures from the Dental Estimates Board's Annual Reports Regional variations in population per dentist

	Civilian population per dentist practising in the general dental service			
Economic planning regions	1966	1967	Survey regions 1967	
North West North West Vorks and Humberside Wales South West West Midlands East Midlands London and South East { G.L.C. the rest	6160 5580 5860 6380 4190 6260 6210 5460 2840 3830	6140 5490 5880 6340 4130 6280 6030 5530 2890 3850	5750 The North 6070 Wales and the South West 4840 Midlands and East Anglia 3290 Loedon and the South East	
England and Wales	4620	4600	4600	

	Civilian population per dentist practising in the general dental service					
Registrar General's Standard Regions	1949	1965	Ratio* of 1965 1949			
Northern North Western East and West Ridings Wales South Western North Midland Midland Eastern London and the South East Southern	5400 4100 4700 4300 4000 5300 5400 4900 3700 3800	5950 5540 5680 6390 4200 6400 6130 4570 3130 3760	1-10 1-35 1-21 1-49 1-05 1-21 1-13 0-93 0-85 0-99			

^{*}A ratio larger than one indicates a deteriorating situation.

The figures of population per dentist are obtained by dividing the mid-year estimates of the civilian population by the number of dentists practising in the general dental services.

In 1957 (the latest available figures) the regional variation in population per dentist, using the individual planning areas, varied from under 3,000 per dentist in the area roughly equivalent to that of the Greater London Council, to over 6,000 per dentist in Wales, the West Midlands, the East Midlands and the North. For England and Wales as a whole the figure was 4,600 persons per dentist.

If we compare the present level for England and Wales with that which existed at the heginning of the National Health Service, it can be seen that the situation has deteriorated. The potential work load per dentist has increased.

The series of figures which enables us to compute regions changed its definitions of region in 1966 hat we can make a regional comparation from 1994 to 1963. This shows that although the overall position in the country deteriorated over that period the destrications do not cour at the same level in all parts of the country. In fact London and the South East, the Eastera Region and the Souther Region, more than antination distriputions whereas everywhere close Southern Region, more than antination distriputions whereas everywhere close the country in the country of the c

Comparing the ratio of persons per dentits in England and Wales with that in the United States of Americas we find a very considerable difference. In 1967, taking into account active non-federal dentits only, there were 2,150 persons per dentits in the United States. This includes specialists, however, and comparison may be more realistic if these are reduded, in which case there of the comparison may be more realistic if these are reduded, in which case there were the contraction of the comparison of the comparison of the contraction of t

The density of population per dentist in England and Wales compared with that of the Unified States suggests that the scarriey of dental mangower for providing conservative densityr for the whole population is still a major problem in this country. The uneven distribution of population per density between the regions suggests that dental health will be much more affected by scarriely in some places than others. With the survey results we are in a position to examine in some detail the effects of the distribution of scarce resources and to establish where and on whom scarcity is takine its greatest toil.

PART II-PEOPLE WITH NO NATURAL TEETH

4.0 THE EDENTULOUS

An initial indication of the dental health of the community is the proportion of people who are receivabluse in. Eave local aftheir natural tech. The results which we present for England and Wales are obtained from a measurement when the present in the people of the p

For example, one very fundamental change in the provision of dental trenst trush the device of the Cantell Device as part of the National Internations that the Cantell Device as part of the National Internations of the Cantell Device of the National Internations of the Cantell Cantell

Great care must therefore be taken in interpreting and predicting from figures which relate to people of all ages, since the availability and range of dental treatment has changed so radically. The most useful comparisons will be between different groups of people of the same age range from different regions, so that opnortunity for dental treatment bas been similar.

4.1 Regional variation in total tooth loss in 1968

Of people in England and Wales, aged 16 years and over, 36-8% had none of their natural teetb. As can he seen from Table 4-1 this proportion varied considerably between the regions.

The most striking comparison was between the level of total tooth loss in the North and that found in London and the South East. The proportions were 45% and 28.4%, respectively. The other two regions fell hetween these extremes. Wales and the South West, at 445% was nearer the keef for the North, whereas the Midlands and East Adapta (24.9%) was more that London and the South defined classification. The proposal variation to occur on such a timple yet will defined classification.

TABLE 4.1

Deline states in the direction regions							
Dental status	The North	Wales and the South West	Midlands and East Anglis	London and the South East	England and Wales		
People with some natural teeth People with no natural teeth	% 54.5 45.5 100-0	% 56-8 43-2 100-0	% 66-1 33-9 100-0	% 71-6 28-4 100-0	% 63-2 36-8 100-0		
(Edentulous) Base (Adults 16 and over)	864	431	620	1008	2932		

We continued to examine dental status to see whether there were other variables such as age, sex, and household social class, associated with different levels of total tooth loss, and whether any of these explained in any way why such a large regional variation exists.

We have already commented that more than 45% of people who have lost all their natural teeth lost them before the National Health Service began. Is the large amount of regional variation in the level of total tooth loss in fact confined to those who lost their teeth a long time ago?

TABLE 4.2

Dental status in the different regions, showing whether total tooth loss occurred before the National Health Service began

Dental status	The North	Wales and the South West	Midlands and East Anglia	London and the South East	England and Wales
	%	%	%	%	%
People with some natural teeth	54-5	568	66-1	71-6	63-2
People edentalous since NHS began	25-0	21-8	19-6	15-2	20-0
People edentulous before NHS began	20-5	21-4	14-3	13-2	16-8
Base (Adults 16 and over)	864	431	629	1008	2932

Table 4.2 shows that the regional variation in the level of total tooth loss is not in fact confined to those who had all their teeth out hefore the National Health Service began. The variation exists among both groups of edentitious people, those who lost their teeth over twenty years ago and those who lost them in the last twenty years.

4.2 Variations in total tooth loss with age

Since tooth loss increases with age and since dental attitudes change over time we examined the level of total tooth loss for people in different age groups. We show this for the separate regions since a large regional variation has already heen established. Table 4.3 shows for each age group and each region, the proportion of people who are edentulous.

TABLE 4.3

	10tai toota se	is for unicrem	age proofs of	region			
		Proportion edentulous					
Present age	The North	Wales and the South West	Midlands and East Anglia	London and the South East	England and Wales		
16-24 25-34 35-44 45-54 55-64 65-74 75 or more	2-4% (125) 15-4% (136) 32-1% (159) 55-4% (139) 73-3% (150) 80-7% (109) 93-5% (46)	0-0% (49) 6-9% (72) 26-0% (77) 33-3% (60) 73-7% (80) 88-5% (61) 87-5% (32)	1-1 % (95) 4-4% (114) 20-3% (123) 47-6% (106) 55-2% (105) 82-3% (62) 88-9% (27)	0-0% (126) 2-1% (193) 13-1% (191) 13-1% (191) 27-2% (173) 54-7% (159) 69-4% (111) 83-6% (55)	1-0% (395) 6-8% (515) 22-0% (550) 40-6% (475) 63-6% (494) 78-7% (343) 88-1% (160)		
All ages	45-5% (864)	43-2% (431)	33-9% (629)	284%(1008)	36-8 %(2932)		

Base numbers are given in brackets.

The variation in the proportion of people who were edintations in the different age groups ranged from 16%; of those age of 16-54 to 88½ of those age of 15-50 to 88½ of those age of 15-50 to 88½ of those age of 15-50 to 15-50 to

People under 35 at the time of the Survey were at most 14 years old when the Health Service started. Yet it would appear that despite this there is still regional variation in the level of total tooth loss. With this treatment available, what still makes the risk of total tooth loss so much greater in the North than in London and the South East.

4.3 Variations in total tooth loss between the sexes

Next we examined whether the risk of heing edentulous was greater for men or for women, given that age and region make a considerable difference.

As with Table 4.2 the figures in Table 4.4 show for each particular group the proportion who rate offentions. From the cleam showing figures for England and Wales it can be seen that in the age range 16-54 the proportion of women who have local all their natural each is higher than the companied proportion for mean. The greatest difference is in the age group 2 mean. From the age of 56 means that the proportion of women to make the proportion of the proportion of the proportion of the natural women who are cleartized as short level. Thus there is a tendency for women to loss their tendency for the proportion of the natural women to the time the date are prompt are marked the level of tools had as infinite for holm seens. This means that overall in the proportion of the propor

The bottom raw of the table shows the proportion of men and women of all agas, in the different regions, who are columious. In each region a slighter proportion of women are obsentious. However, it is carrious to see that the difference between the sees is not the same for all regions. In clandon and the South East 267% of men and 299%, of women were obsentious, whereas in the whole the proposition was been some size the same part of the region whereas in the velocity at the different age groups we can use out what age this large divergence whereas the extent in the Nursh occurs. The two age groups which contribute of women were observables. In the latter 472% of men but 60-5% of women were observables.

Thus women in the North accounted for a large part of the regional difference in total tooth loss.

TABLE 4.4

Present age	Sex	Proportion edentations					
		The North	Wales and the South West	Miclands and East Anglie	London and the South East	England and Wide	
16-24	Mule Ferrals	16% (57) 29% (68)	9-0% (25) 9-0% (24)	0-0% (45) 2-0% (50)	0.0% (56)	04% (H	
25-34	Mule Femals	12-2% (74) 19 4% (62)	9-4% (33) 3-0% (40)	0-0% (58) 1-5% (59)	3-3% (92) 1-0% (101)	76% G	
15-64	Mais Fecnale	24-7% (81) 19-7% (78)	10 5 % (37) 40 0 % (40)	15.9% (69) 25.9% (54)	11.6% 88 146% 86	16-3% (2) 28-0% (2)	
45-54	Male Femile	472 % (53) 60 5 % (86)	路接 開	45-0% (60) 51-2% (43)	22-2 % (72) 30 7% (100)	36-1% (X) 44-2% (X)	
55-64	Male Female	69.7% (29) 77.0% (20)	594% (20) 171% (40)	56-67 (33) 53-67 (33)	\$2.9% (ED)	61-1% G	
65-74	Male Femile	80-0% (45) 81-2% (64)	92-1% (31) 83-1% (30)	73.0% St)	66 0% (47) 71 9% (48)	776% (14 796% (1	
75 or more	Mole Female	102-0% (13)	87-0% (23)	\$3% 83 83	\$2.6% GB	87.7% O	
All ages	Maic Famile	39 1 ½ (399) 30 6 ½ (463)	19-4% (193) 46-2% (238)	3742 GIB	20.7% (472) 29.9% (516)	32.9 %(13) 40-2 %(15)	

Base numbers are given in brack

4.4 Total tooth loss and household social class

We extend the analysis to include another factor, household coolid class. We elassified people by the social class to the head of household in which they live, limitally we alsow, for England and Walles, the level of total tools has in least the least the least the least the least the least the process of the least the least the least the process of the least the least the least the process of the least least the least least

Table 4.5 shows that for the category 'housewife' the level of total tooth loss is very high. This is because many of the households with housewives as bead of household are made up of elderly widows. The 'others' category includes a small

group of people for whom the head of household was a student, or was unemployed or for whom the information obtained was insufficient for classification.

TABLE 4.5

Household Social Cl		Prop	ortion eden	tulous
Household Social Cl	155*	Eng	land and V	/ales
Professional Managerial and Skilled non-manual	Social class I Social class II Social class III—non-manual	27-1 %	$\left\{ \substack{15.2 \% \\ 31.0 \% \\ 25.1 \%} \right.$	(112) (503) (335)
Skilled manual	Social class III—manual		33-9%	(1074)
Semi skilled and unskilled	Social class IV—non-munual Social class IV—manual Social class V	463%	$\left\{ \begin{array}{l} 47.0 \% \\ 45.8 \% \\ 47.1 \% \end{array} \right.$	(100) (419) (153)
	Housewife		67.9%	(181)
	Others†		38-2%	(55)
All social classes			36-8%	(2932)

*Individuals are classified by social class of the head of household in which they live.

†Students, unemployed and not classifiable.

For the social classes IV non-manual, IV manual and V the proportion of centrulous people was very similar (470%, 485%); and 411%) and considerably higher than the other social classes. Social class I, a fairly small group numerically, had the lowest level of rotal tools have [12-2]. Social class III non-manual tetch than Social class III, which is considered to the control of t

In the next four tables we examine the level of total took hoss for different social clauses, seven, regions and agas. To do this the social clauses have been grouped and the residual groups of housewives and other? have been excluded from the body of the tables but included in the totals. In addition the age group previously used have been amalgamated into three, 16–34, 35–54 and 55 years and over. Table 4.6 gives the results for people of all agas. Table 4.7 includes only those aged 16–34. Table 4.8 includes only those aged 35–54 and Table 4.9 whose whose gade 15–35 years and over.

Looking at England and Wales as a whole, the level of total tooch loss varies from 271½ armong both sexes in Social class 1, II and III non-annual to 463½, for social class IV and V. Is this range similar for all regions 7 in the North comparable figures are 263½, and 575½, respectively. In London and the South East the figures are 274½, and 371½, respectively. For social class I, II and III non-annual there is a regional variation bott his is small compared to the variation between different social classes. For social class IV and V, the social classes that the figure is also a large regional variation.

We have already seen that women contribute to a large extent to the higher level of total tooth loss in the North. If we examine the differences in social class, with respect to sex, we see that for women, the range in the level of total tooth loss is from 31.5% to 63.6% in the North and from 23.9% to 35.5% in London and the South East. The proportion of women who have no natural teeth is generally higher than the proportion of edentulous men, for all social classes. However there are one or two combinations of region and social class for which the proportion of total tooth loss is very much higher among women than men. In social class IV and V in the North, 63-6% of women were edentulous compared with 50-0% of men. Similarly there was a considerable difference between the sexes in this social class in Wales and the South West (52.4% of women; 45.8% of men).

TABLE 4.6 Total tooth loss by household social class, sex and region for

		1	Pr	oportion edeatul	lous						
		All ages									
Homehold Social Class	Sex	The North	Wajes and the South West	Midlands and East Angles	London and the South Exst	England and Wale					
I, II and III non-menual	Male Female Both	27-4% (117) 11-0% (126) 29-5% (248)	31-9% (72) 30-1% (746) 36-1% (746)	24-2 % (91) 39-9 % (87) 29-7 % (178)	H-5% (178) 21.9% (200) 21.4% (180)	24 0 % (4 29 9 % (4 27-1 % (5					
III manual	Male Ferrale Both	42-5% (167) 44-0% (168) 43-0% (333)	42 4% (60) 40 2% (17) 41 2% (13)	29-4% (136) 23-60 (104) 27-5% (240)	28-9% (180) 22-9% (166) 26-9% (146)	144% C 314% C 114% (II					
IV non-manual IV manual and V	Male Female Both	\$9.0% (100) \$1.6% (110) \$7.9% (210)	45-875 (44) 52-477 (42) 48-977 (90)	18-7% (80) 43-9% (82) 41-4% (862)	31-1% (00) 31-1% (00)	43-1% (0 49-9% (0 46-1% (0					
All* Social Classes	Male Female Both	39-1% (399) 50 8% (463) 43-5% (864)	33-4% (193) 46-2% (216) 41-2% (431)	30-2% (318) 37-65 (318) 33-9% (629)	26-7% (472) 29-9% (536) 20-4% (1000)	12 97% (E) 40 17% (E) 16 17% (E)					

We have here been considering people of all ages. In the following paragraphs we examine the proportion of edentulous persons with respect to sex, social class and region for separate age ranges. Among the younger age groups (16-34 and 35-54) we shall see that the differences between the sexes are not confined to one social class. Among the oldest group, (aged 55 or more), however, there is such a predominance of edentulous persons that the difference between the sexes disappears. Consequently the differences among people of all ages that we have been examining (Table 4.6) are only the combined results of age, sex, social class and region. We now go on to examine the separate age groups in detail.

The tables which deal with the particular age groups are subject to some erratic variation because of the fairly small numbers in many groups. Table 4.7 deals with those send 16-34. For this age group there is a marked regional variation for all social classes, including social class I, II and III non-manual. The vast majority of the edentulous young are, in fact, located in the North. In addition to this general high level of total tooth loss in the young in the North, there is a substantial variation with social class. These factors together with the higher proportion of total tooth loss among women combine to make women of social class IV and V, in the North, the group most prone to total tooth loss among the under 35's, reaching a level of 18-2% edentulous. This is of particular

^{*}Those totals include the housewife, student, unemployed and unclassifiable categories which are not included

note as there were no edentulous persons found, in our sample, in this age group in social class IV and V in London and the South East.

TABLE 4.7 Total tooth loss by bousehold social class, sex and region for

		_		those a	ged 16	-34	_							
			Proportion ederations											
Household			Aged 26-34											
Chas	Sex	Ta No	sia.	Wales of South	od the West	Midlands and East Anglia		London and the South East		England and Water				
II and III one-musual	Male Farale Both	27% 84% 86%	(77) (35) (74)	9-0% 0-0%	888	00% 00% 00%	(27) (23) (60)	14% 00% 07%	(62) (72) (126)	1-3 % 2 0 0 1-6 %	(158) (150) (306)			
III messasi	Male Female Both	8-3% 6-6% 7-6%	(61) (29) (119)	10-0% 140 61%	(25) (25) (40)	90% 57% 34%	(36) (37) (89)	3/7% 14% 24%	(16) (11)	50% 44% 48%	(176) (203) (773)			
IV mon-manual IV mazzad and V	Male Female Both	14-175 18-075 16-752	(27) (33) (60)	77% 00% 43%	(13) (20) (23)	00% 100% 19%	133B	00% 00%	(21) (21)	50% 50% 76%	(15) (100) (111)			
Ali* Social Classes	Main Female Both	7-6% 10-6% 9-2%	(131) (130) (261)	\$155 \$155 \$155	(57) (64) (121)	99% 530 29%	(100) (100) (100)	20% 06% 1-3%	(144) (171) (319)	37% 465 63%	(436) (474) (910)			

Bass numbers are given in brackats.

*Then totals include the focusewifs, student, unemployed and unclassifiable congocies which are not included eleverhors in the table.

Among the age group 35-56 there is generally a higher level of total toods took than we have been examining among the under 53- From the variationar performance of the contraction of the variations provided discussed, one might anticipate that the largest difference in the level of total totol to some gives easy and 5-54 would be fround when comparing mon of social class 1, 11 and III non-manual, in London and the South East with women from the Sovich of social class 1, 12 and III non-manual, in London and the South East with women from the Sovich of social class 1, 12 and III non-manual, in London and the South East with women from the Sovich of social class 1, 12 and 17 months and 18-18 to 18-1

TABLE 4.8
Total tooth loss by bousehold social class, sex and region for

		1			Pi	roportion	edents	dous			
Housebold						Agod 3	5-54				
Class	Sex	Ti No	The Wales and the North South West		Midlands and East Anglia		London and the South East		England and Wides		
Ill and Ill non-munual	Male Fortale Both	17-0% 28-8-2 24-2-%	(29) (32) (91)	9-5 % 28-6 % 20-4 %	(B) (B)	33.3% 23.4% 29.4%	(35) (31) (67)	9-4% 23.8% 16.2%	(H) (H)	H 975 23.455 24.555	(160) (189) (149)
III manual	Male Female Both	384% 341% 473%	(75) (76) (131)	23 8 % 46 9 % 37-7 %	(21) (25) (27)	21 9 % 33 8 % 23 6 %	((4) (30) (34)	29-6% 20-6% 20-7%	(68) (72) (140)	26-275 38-655 32-355	(210) (204) (418)
IV non-mousel IV merced and V	Male Fornale Both	429% 742% 57-6%	(15) (10) (86)	25-0% 50-0% 33-7%	(19 (13) (13)	46·2% 53-3°2 50-0%	(20) (20) (20)	23-3% 23-3% 23-3%	(20) (43) (73)	355% 4740 417%	(107) (116) (223)
Alj* Social Classes	Male Female Both	33 6% 50 6% 43 0%	(134) (164) (294)	15-3% 37-7-0 29-2-%	(E) (17)	29.5% 37-100 32.7%	(125) (27) (226)	162% 221% 194%	(167) (197) (364)	24.7% 36.1% 30.6%	(650) (535) (1025)

Bise numbers are given in headasts.

*These totals include the housewife, student, unemployed and unclassifished consports: which are not included statestore in the table.

In this age range a higher proportion of women than men have lost all their natural teeth in all social classes and all regions except London and the South Fast. Here the overall level of female total tooth loss is only higher than the male because in social class I, II and III non-manual the level for men is very low (9-4%), for all other groups the levels are almost identical. In the other regions there are very large variations with sex and social class. The greatest differences in total tooth loss occur in the social classes which show both sex and region variations. For example, for social class III manual 54-1% of women in the North were edentulous compared with 20-8% of women of that social class in London and the South East. An even greater difference occurs in social class IV and V. Here 74:2% of women in the North were edentulous compared with only 23-3% in London and the South East. Although not as high as the North, the majority of women in this social class in the other regions were also edentulous. What makes social class so important dentally in some regions and so unimpor-

tant in others? We examine next the oldest age group, those aged 55 or more. The overall proportion of people who were edentulous has risen steeply with increasing age. Among those aged 16-34 4-3% were edentulous, among those aged 35-54 30.6% were edentulous, among those we examine next, aged 55 or more nearly three-quarters (72-7%) were edentulous.

TABLE 4.9 Total tooth loss by household social class, sex and region

		1			P	opertion	etern	k745				
Wassahala						Aged 55	07 ID16					
Heunebeld Social Class	Sex	Th No									England and Wales	
l, II and ili ron-manual	Male Female Both	54-5% 56 8 77 57-7%	(41) (37) (76)	72 4 15 47 2 52	(27) (33)	154% 654%	(18) (33) (31)	59.0% 53.2% 53.2%	(11) (11)	579% 627% 624%	(140 (153 (293	
III micosi	Male Forrale Both	13.75 13.75 17.15	(50) (35) (85)	#40% 73 16 74 4%	(25) (26) (31)	724% 614% 684%	(34) (37)	621% 6876 644%	(H)	73-1% 73-7% 74-6%	(140 (114 (143	
IV non-manual IV manual and V	Maje Fernale Both	\$1.5% \$3.7%	(18) (14) (92)	89.5% 80.0% 84.6%	(17) (21) (31)	55415 53415 63415	(32) (23) (35)	714% 714%	(#)	74 0 % 80 3 % 77 3 %	831	
Ail* Social Classes	Male Fernale Both	76-1% 41-36 79-0%	(124) (171) (205)	81-676 81-476 81-576	(75) (97) (173)	65-27/ 71-47/ 68-67/	(193) (1940)	61-1% 67-2% 64-6%	(117) (111) (111)	69.7% 73.2% 72.7%	(436 (34) (39)	

Buse members are given in bruckets.

"These tracks include the horsewife, student, unconclosed and unclassifiable categories which are not included

Among those aged 55 or more, differences between sexes, regions and social classes were not as yast as the differences seen in other age groups. The variations were of a pattern consistent with the earlier discussions. Those who lived in London and the South East and were of social class I, II and III non-manual had a level of 53-2% edentulous. Those of social class IV and V in the north had a level of 83.7%.

We have thus established that total tooth loss varies with age, sex, social class and region. The two most surprising results are that the variation between the sexes operates at a different level regionally, and that there is a regional difference that is independent of age, sex, and social class. If the reason for this regional variation could be established, then there might he considerable opportunity for improving dental bealth merely by reducing regional inequality.

4.5 Total tooth loss in England and Wales compared with the United States of America

We have been examining the variations in total tooth loss that exist among adults in England and Wales. We now examine how the levels compare with those in the United States of America. The United States' continuous health survey provides data directly comparable with the survey results. In Table 4.10 the results are compared for different ages, sexes and regions. For ease of reference we repeat in this table figures which have already been presented earlier in this section.

TABLE 4.10

Total tooth loss in England and Wales compared with the United States of America for different ages and sexes and for the regions

Present						Propo	rtion	edentele	XXX			
ego	Sex	The			Wales and the South West		Midlands and East Argin		den the East	Engl and V		U.S.A.
16-24	Male Female	14%	(57) (68)	00%	(29)	20%	(45)	00%	(56) (76)	0.5% 14%	(183) (212)	1-370
25-36	Male Ferrale	12:2%	(74) (62)	94% 50%	(82) (40)	0.0%	(55) (59)	10%	(92) ((91)	19%	(257) (262)	27%
35-46	Mole Persals	24-7% 39-7%	(H) (78)	10 8% 40 0%	(11) (40)	159%	(65) (54)	11 6%	(95)	16-3% 28 0%	(282) (263)	101%
45-54	Male Female	67.2% 60.5%	(52) (22)	10 4 % 35 1 %	(23)	45 0% 512%	(60) (43)	22-2 % 30-7 %	(101)	36-1% 64-2%	(203)	20-0%
55-64	Male Famale	17-0%	(76) (74)	69.4% 77.3%	(36) (44)	56.6% 53.8%	(53) (52)	52 9% 16 9%	(87) (72)	61-1%	(252) (262)	347%
65-74	Male Fermile	100% 112%	(45) (64)	93.5% 83.5%	(31) (34)	75 0% 86 8%	(8)	660% 719%	(41) (64)	77.6% 79.6%	(147)	43-1% 53-0%
75 or more	Malo Female	100 0 %	(H)	88 9% 87 0%	(23) (23)	8313% 93-3%	(12) (15)	126% 144%	(23)	87.7% 85.3%	(57) (103)	55 77% 65-6%
All ages	Male Female	39.3%	(399) (465)	39-4% 66.2%	(193) (238)	102% 17.6%	(118) (110)	267%	(472) (536)	32.9%	(1382)	1657
	Both	45-5%							(1008)	354%	(2932)	181%

Bass mumbers are given in brackets. *In the American Survey the age range studied was mitricted to those aged 18-79, Consequently the age groups 16-24 and 75 or more are not fully covered by the American statistics.

In the United States the system of obtaining dental treatment has not changed radically as it did in this country when the National Health Service began. Ohviously over time dental techniques and public attitudes do change, but it is prohably reasonable to say that on the whole the level of total tooth loss among the over 55's in the United States, is the level which is generated by the amount of total tooth loss existing among their present day young. Thus the overall level in the next 20 years is not likely to drop dramatically below 18-1% in the United States of America.

In England and Wales, however, there has been a radical change in the system. Dental treatment has been available on the National Health Service since 1948. If this system has resulted in any improvement in dental health, then the level of total tooth loss among the young will generate, over the next twenty years, a different overall level of total tooth loss. One might well see a

considerable improvement in the proportion of people in England and Wales who have no natural teeth. In addition, of course, dental health in the next twenty years may benefit from further advances in the control or prevention of decay, such as a general introduction of fluoridation or the possibility of other scientific developments.

Although this is only supposition a more detailed examination of total tools loss by age gives additional support to the byophotesis. Among those whose dental treatment has been largely carried out within the bealth service (i.e. those under 53 years) there is not a great deal of difference between the levels in England and Wales and those in the United States. It is only after this two properties of the service of the other services of the other services of the other services the services the

A single measurement at one point in time is insufficient to measure improvement but these figures do suggest that the change in the system in this country bas bad some effect.

If we compare the American figure with the regions then we find that for those under 35, London and the South East is alselwing a lovel level of cotal tooth loss than the United States as a whole while the North is considerably lighter. In London and the South East is no unit one compare the Sysperity of the Control of

4.6 Total tooth loss before the age of thirty

The changing state of dental health over time can only be adequately measured by repeated surveys. Since no cultier national figures are available for England and Wales we are restricted to a fairly limited comparison of total tooth lost over time. We have made conjectures in Societion 4.5 about what might be the future level of total tooth loss by comparing total tooth loss at various ages in this country and in the United States. One other indication of whether or not the situation is changing, a to look at prople in specified age whether the state of total tooth loss is in greateral being raised.

We have taken as our indicates the proportion of people who had lost all furth antiunal tech bodies to be age of 30. by suit fluids gave one cannion those the first threat the proposal of th

TABLE 4.11 Total tooth loss before the non of thirty

	Propo	ortion edentulous before	thirty
Present		England and Wales	
age	Male	Female	Both sexes
30-34 35-44 45-54 55-64	3.9% (129) 4.3% (282) 5.8% (208) 9.9% (252)	53% (131) 10.8% (268) 9.4% (267) 12.4% (242)	46% (260) 7.5% (550) 7.8% (475) 11-1% (494)

Whatever the present age there was a higher total loss of teeth hefore thirty among women than among men. The figures showed an overall improvement for successively younger age groups. For hoth sexes together the proportion had been reduced over the last thirty users or so from 11-17%, dentations hefore the age of thirty to 4-6%. The fairly considerable reduction for the age group 50-34, is compared to the contract of the cont

Region has played a large part in variations in the general level of total tooth loss. On examination we find that it is also a very important factor when considering the level of total tooth loss at an early age. Although the hase numbers are very small there is, nevertheless, a very distinct nattern overall.

Table 4.12 shows that in all regions the situation has been improving over time, but in London and the South East the improvement has been over the range 5.7% to 2.2% whereas in the North the comparable range is 15.5% to 8.5%. With one or two exceptions there is a consistent pattine in all the regions of women heing more likely than most to experience early total tooth loss. The improvement that has been achieved in the North would appear to have been known to be a support of the contraction of the contraction of the contraction of the tooghi has the subsection of the contraction of the contract

Regional differences, especially with respect to women, appear to have long standing origins. Time is hringing with it improvement, but improvement seems to come more readily to areas which are already relatively hetter off in terms of total tooth loss.

We are of course dependent on memory for the older people hut we think that the occasion of final tooth loss is a fairly memorable event, and no other measurement is available to us.

4.7 The reasons for total tooth loss

Although the measure of total tooth loos is, itself, a fairly simple one, the factors which accumulate to hring about total tooth loos in any individual are very varied. A retrospective investigation such as this, is lumpered by the fact that once the teeth have been extracted then the evidence relating to their state of health and the situation leading up to full clearance has disappeared. Despite this complexity we have already seen that ther is a large variation in risk of total tooth loos for different groups of people in the community. Many people looth the last of their teeth a long time ago, in circumstances which are very

TABLE 4.12

Present asso		Proportion edentulous before thirty The North								
	Male		Fom	ale	Both	Sexes				
30-34 35-44 45-54 55-64	6-2*7 7-5%	(42) (81) (53) (76)	13-3 % 19-2 % 16-3 % 17-6 %	(30) (78) (86) (74)	8-3 % 12-6 % 13-0 % 15-3 %	(72) (159) (139) (150)				

	Proportion edentulous before thirty									
Present age		Wales and the South West								
	Ma	Ac .	Fen	nale	Both 5	Sexes				
30-34 35-44 45-54 55-64	16-7% 5-4% 4-3% 13-9%	(12)* (37) (23) (36)	4·2 % 15·0 % 13·5 % 22·7 %	(24) (40) (37) (44)	8-3 % 10-4 % 10-0 % 18-8 %	(36) (77) (60) (80)				

	Propo	ortion edentulous before	thirty					
Present	Midlands and East Anglia							
Ago	Male	Female	Both sexes					
30-34 35-44 45-34 55-64	0.0% (29) 4.3% (69) 8.3% (60) 9.4% (53)	3-2% (31) 7-4% (54) 4-6% (43) 3-8% (52)	1.7 % (60) 5.7 % (123) 6.8 % (103) 6.7 % (105)					

Present age 30-34 35-44	Proportion edentulous before thirty								
Present		London and the South E	ast						
	Male	Female	Both Sexes						
30-34 35-44 45-54 55-64	2-2% (46) 2-1% (95) 2-8% (72) 4-6% (87)	2-2% (46) 4-2% (96) 4-0% (101) 6-9% (72)	2-2 % (92) 3-1 % (191) 3-5 % (173) 5-7 % (159)						

^{*}But note the very small base number

difficult to reconstruct. However, the variations in the levels of total tooth loss were not confined to those who had here detentious for a long time, Large variations exist among people, the majority of whose dental treatment has been obtained since the advent of the Health Service. For example a large regional variation exists even among those aged under 35 Q=2% elemthous in the North; 13% colombian in London and the South East, see Table 4.7).

What are the underlying reasons which might bring about a different level of total tooth loss among the under 35's in different regions? There are three broad headings under which possible reasons fall.

- (a) a difference in the level of disease.
- (b) a difference in the attitudes of patients to dental health and treatment.
- (c) a difference in the treatment given by dentists.

These three headings are very hroad indeed and the second and third are very much influenced by each other. We shall examine the survey data with respect to these three areas of influence.

For people under 39 who had lost all of their natural seeth it, is too late to study the reasons why they beame declarations since the evidence of the state of their testh no longer exists. However a high proportion of the under 375, with late to some attendant lests. One would expect that the reasons which are the some attendant lests, disc under despect that the reasons which are those with some natural testh since this is the group which contains those who will not kenome denotions. Section de deals in detail with the different tooth conditions found among the under 375 who have some natural testh. We will offer the state of the st



PART III....NATURAL TEETH

5.0 PEOPLE WHO STILL HAVE SOME NATURAL TEETH

Section 4 dealt with a negative aspect of dental health, the complete loss of natural teeth. Sections 5-8 now consider those people who still retain at least one of their natural teeth. The range of teeth among this group varied from people with only one or two natural teeth left to those with only one or two that were missing.

Before presenting the survey findings on natural tenth, two points must be two intended to the reader's attention. Firstly, when presenting the findings about natural tenth, the information obtained from the dental examination is used to the control of the obtaining the control of the control of the control of these who were interviewed but not examined is discussed in the Appendix. Secondly, since a substantial proportion of the population (49%) had not natural tenth at all, the three results presented in this section refer to only a sub-pool of the Appendix.

Dental health is determined by the amount of disease suffered, but is infunced by whether treatment is sought, and by the kind of treatment that is received. The assessment of dental health is made more complex by the fact that attural tetch are at risk from two major and diseases, dental decay which attacks the teeth themselves, and periodontal disease which attacks the gums and tooth supporting tissues.

As soon as a tooth appears in the mouth it becomes whereable to attack by detailed every. The process begins as a palieste process of destruction of the surface of the tooth. This destruction usually starts either on the hilting surfaces of the tooth. This destruction usually starts either on the hilting surfaces of the tenth or at the points of contact between adjacent tent. The crossion containes until a small hole is made through the hard cannel of the tooth. Once into the foother underlying destruct, the decay process is repul small the tooth in virtually a the foother underlying destruct, the decay process is repul small the tooth in virtually as the "bind" pully in the centre of the tooth, causing almost abusys severe toother. Forth decay appears to develop at different rates in different people but obviously treatment is simple for both patient and dentist if the decay process is discovered in its early stages.

Periodontal disease will be described in more detail in Section 7.0 when the findings about gain troble are presented, Briefly, therefore, guan trouble, if not treated, Briefly, therefore, guan trouble, if not treated, may eventually result in the shrinking back of the gams leaving the texth susupported. This may expose the root of the tooks and thereby also leave volumenble to decay an area that would normally be protected. Ultimately support for the natural teeth may be so reduced that the teeth hoosen looks and can even he pulled out with the fingers, If detected in the early stages, however, treatment can arrest the disease and proserve what remains. There is a point at

which, bowever, conservative treatment is not worthwhile since too little of the supporting tissue remains. Thus in cases of severe gum trouble teeth which are otherwise sound may have to be extracted.

As we have said already, it is not only variations in the occurrence of disease that determine dental bealth. Differences in treatment patterns also play their part. Dental treatment patterns are very complex. They are built up over a very long period of time, can involve the work of several dentists, and may reflect changes in a person's attitude towards dental health. Dental treatment is mainly the result of interaction of two people, the patient and the dentist. No dentist can treat a person who does not present himself for treatment. Once a person bas presented himself for treatment, bowever, the dentist has the ultimate say as to what treatment is given. This is not to say that some patients do not have very firm ideas about the treatment they desire, but ultimately the type of treatment given must be primarily the dentist's decision. However, the patient may well have pre-empted this decision by his previous record of dental attendance. If his mouth has been very neelected it may not be possible to carry out full restorative treatment. In some cases the dentist's decision about what treatment should be given may be determined by the dentist's assessment of the patient's future dental hebayiour.

It is against this very complicated background that we examine the present state of dental health of people who still have some natural teeth.

6.0 DENTAL DECAY AND ITS TREATMENT

6.1 The condition of natural teeth in adults

The dental examination established whether a tooth was present or missing If the tooth was present, the examination showed its condition, but if the tooth was missing the examination could give no information concerning either how long ago the extraction or loss occurred, the condition of the tooth at the time or the reason for the extraction or loss. It is often assumed when assessing dental bealth, that if a tooth is missing then it was lost through dental decay. However, as previously stated, some teeth are lost through periodontal disease, some are lost as a result of orthodontic treatment or as the result of injury, some are lost in the process of making a reasonably well fitting denture, and a few may never have formed in the first place.

From the examination each of the thirty-two teeth positions were classified into one of the following categories.

- (i) sound and untreated
- (ii) crowned
- (iii) filled, otherwise sound
- (iv) filled and decoved
- (v) decayed, not previously treated, but restorable actively decayed (vi) decayed, not restorable
 - (vii) hridged
- (viii) missing (not bridged)

Among the 54,208 tooth positions which existed among adults with some

natural teeth there were in all 107 teeth that were crowned and 23 for which hridges had been provided. These categories thus play a very small part in the dental health of the community. Since they occur so infrequently and represent types of treatment which are very specialised, they have been grouped together in the analysis.

The eight extegories are mutually exclusive. At any one point in time a tood in only digible for inclusion in one extegory. However, over time, a stood men pass from one condition to another. For example, when a sound stood which has never been treated becauses discosted influidly passes into the decayed, not have a sound stood which has never been treated becauses discosted in the interest passes and the extracted or it may be filled. If presument is not sought the took will remain in this extegory, possibly centrally passing into the four extracted group. If the decayed tood is extracted them another size has been taken towards tood took loss. If the treatment received is restorative them the took passes into the work loss of the treatment received is restorative them the took passes into the control of the size of the s

Thus the lifespan of a tooth is determined by a complicated interaction of disease and treatment. The combination of all such interactions over all thirty-two tooth determines the level of chetnal disease caused by detail decay, although again it must be remembered that total dental disease depends on other dental conditions as well as decay.

Table 6.1 shows, for adults who have some natural teeth, the average number of teeth in each condition. The figures are given separately for males and females and for the under 35's and the 35-year-olds and over, as well as for both sexes and all ages.

TABLE 6.1

Average number of sound, docayed and treated teeth among adults with some natural teeth

			Average	number	of seeth in	ench con	dition			
				tiles						
Tooth conditions		its aged be une nature		Adults with so	aged 35 as one natego	d over I teeth	Adults of all ages with some natural test			
	Mule	Female	Tend	Mule	Female	Total	Male	Ferrale	Tota	
Sound and untreated Crowned or bridged Pilled, otherwise sound Pilled, and decayed Decayed, not previously	15-6 0-1 7-4 0-7	14-2 0-1 9-3 0-7	14.9 0-1 1-4 0-7	11-4 01 52 07	10-4 0-1 5-6 0-6	10.9 0-1 5-6 0-6	13·3 0·1 6·2 0·7	12-3 0-1 7-5 0-6	0-1 6-1 6-1	
treated but restorable Not restorable Missing	9-6 6-3	0-9 0-2 6-6	1-2 0-3 6-4	1-2 0-6 12-6	09 04 I40	1-1 0-5 13-4	14 95 98	0.9 0.3 10.3	1-1 0-4 10-1	
Total	32.0	32-0	32.0	32.0	320	32-0	32-0	32.0	32-0	
Buse	397	419	816	461	417	\$76	555	136	1694	

On severage adults aged 16–34 who had some natural teath, had 15 teath that were sound and untreated, 8–9 that were filled chotherwise sound), 2 that had active decay and 6–7 that were filled chotherwise sound), 2 that had had for the thirty-towp possible teeth were presents sound and untreated. The differences hetween the sexes for this age group were that, on average, men had offerences the second one more took that was sound and untreated and one more that was decayed.

This was counterbalanced by women having two more that were filled and satisfactorily restored.

When we compare adults aged 35 and over with the younger age group, we see that the average number of sound and untreated teeth has decreased by 4, the average number of filled (otherwise sound) teeth has decreased by 3, the level of active decay is the same, and the average number of finishing teeth has gone up by 7. In this older age group women have on average one more tooth

missing than men, and one tooth fewer that is sound and untreated.

When the two age groups are combined we find that people of all ages with some natural teeth, have on average 13 that are sound and untreated, 7 that are

In this section we have given the first display of the average number of texth in each condition. So far we have only used this method of presentation on fairly wide groups, covering people with fairly varied dental states. Later we use the same method on more homogeneous groups of people. In the Appendix we give the distribution of the different tooth conditions, thus showing the variation that is summarised in the average flewer.

The next section examines the survey data to establish whether there are as regional variations in the distribution of the tooth conditions. This analysis is restricted to the younger age group, 16-34 years, since it is a more homogeneous group than the older one and because this age group will have had most of its dental troubles since 1948.

6.2 Regional variations in the level of decay among adults aged 16-34

When the reasons for regional variations in total tooth loss were discussed in section 47, there possible variables were effected as being capable of contributing towards such a variation. The first was 'a difference in the level of disease.' It is therefore of interest to see if, in fact, a different level of dental decay in the different regions can be demonstrated. The analysis will be confined to propole gaid 1-64 with some startust each size the group is more homotomy to be confined to propole gaid 1-64 with some startust each size the group is more homotomy to the confined to t

6.3 The occurrence of decay

The process of decay is palaies in the early stages and if infl unstrated, progresses. Consequently the amount of decay float that the inch the cambination will be the combined effect of the occurrence of the disease and the amount of the combined of the

Although this age group includes those people who are most likely to be dentally healthy, only 2% of those with some natural teeth had 27 or more teeth that were sound and had never heen treated. Clearly therefore it is mean-

ingless to compare those who have experienced decay with those who have not. A more realistic comparison was therefore sought, and it was decided to examine susceptibility to decay in relation to the proportions of people who had 18 or more teeth that were sound and untreated, that is free from decay and never having been previously treated for decay.

TABLE 6.2 Distribution of the number of sound and untreated teeth among adults aged 16-34, with some natural teeth

Number of sound and untreated teeth	England and Wales Adults aged 16-34 with some natural teeth
None 1-2 3-5 6-8 9-11 12-14 15-7 15-20 21-23 24-26 27 or more	7/2 0-2 0-9 3-1 5-6 14-2 17-7 17-8 16-3 10-2 3-3 2-3
Base	816

6.4 Sound and untreated teeth as a measure of disease

The level that we arhitrarily chose for this particular analysis was 18 or more teeth that were at present free from decay and had never in the past been treated for decay (sound and untreated). Tahle 6.3 gives the data regionally showing it for males and females separately as well as for both sexes together.

The proportion of people aged 16-34 with some natural teeth who had 18 or more teeth that were sound and outreated was 40-7% in the North and 24-9% in London and the South East. This was a reversal of what one would expect if the occurrence of docay was greater in the North. In fact the data at first suggests that the level of disease is higher in London and the South East.

However, the figures in Table 6.3 relate only to people with some natural texth. For some people in the age manage 16.34 the ultimate position of text tooth loss had already been reached. Could the worst cases in the North have already been suited for full extraction, thus leaving an apparently healther group with some natural texth 7 it is reasonable to assume that all those who had had full extraction did not have 180 c more second and unternated texth. We therefore re-calculate the proportions on the basis of all those aged 16-34 versa.

	The North	London and the South East
Proportion of all people aged 16-34	40·7 x 90·8%	24-9 x 98-7%
years who had 18 or more teeth that	100-0	100-0

TABLE 6.3 Distribution of sound and untreated teeth for adults aged 16-34 with some natural teeth by region and sex

The North

The number of teeth that

Males—adults aged 16-34 with some natural teeth

Wakes and Midlands London and the the South London and the West Anglia South East and Wales

Fewer than 6 sound and	%	%	%	%	%
untreated teeth	3-4	2-0	4-4	5-8	4-4
6-11 sound and untreated teeth 12-17 sound and	13-5	20-4	19-5	25-4	19-9
untreated teeth	33.9	40.9	38-0	35-5	36-3
untreated teeth	49-2	36-7	38-1	33-3	39-4
	100-0	100-0	100-0	100-0	100-0
Base	118	49	92	138	397
Proportion of adults with some natural teeth	92.4%	94-7%	100-0%	98-0%	96-3%
	Femal	es—adults ag	pd 16-34 wit	h some natur	al teeth
		Wales and	Midlands	London	
The number of teeth that were sound and untreated	The North	the South West	and East Anglia	and the South East	England and Wales
Fewer than 6 sound and	%	%	%	%	%
untreated teeth	64	1-7	2-1	4-4	40
untreated teeth	23-1	32-8	21-3	32-1	27-5
untreated teeth 18 or more sound and	38-9	41-4	43-6	46-0	42-9
untreated toeth	31-6	24-1	33-0	17-5	25-6
	100-0	100-0	100-0	100-0	100-0
Base	108	58	94	159	419
Proportion of adults with some natural teeth	89-2%	969%	94-5%	994%	95-1%
	A	dults ared 16	-34 with son	ne natural tee	th
		Wales and I		London	
The number of teeth that were sound and untreated	The North	the South West	and East Anglia	and the South Fast	England and Wales
Fewer than 6 sound and	%	%	%	%	%
untreated teeth	48	1.9	3-2	5-0	4-2
untreated teeth	18-1	27-1	20-5	29-0	23-8
untreated teeth 18 or more sound and	36-4	41-2	40-9	41-1	39-7
untreated teeth	40-7	29-8	35-4	24-9	32-3
	100-0	100-0	100-0	100-0	100-0
Base	226	107	186	297	816
Proportion of adults with some natural teeth	90-8%	95.9%	97-1%	98-7%	95-7%

Even allowing for the differential level of total tooth loss in the regions, there was still a higher proportion of people aged 16-34 in the North with 18 or more teeth that were sound and untreated than in London and the South East (36-9%, and 24-6%, respectively).

The higher level of sound and untreated teeth in the North existed for both men and women. The earlier discussions of total took loss make it difficult to accept that the occurrence of decay would prove to he higher in London and the South East than in the North. What other explanations could there be for this lower level of sound and untreated teeth in London and the South East;

In resolving this paradox it is necessary to consider the nature of the dental examination. The examination process has been described in detail in section 2.10; in summary the examination was carried out in the home and the dental examiner was making a clinical assessment of deep... He did not have the help of an X-ray and in order to ensure uniformity of recording with the other examiners, only obvious deery lessons were recorded.

In a dental surgery where conditions are more ideal for examination and more captiment is available, decay may be detectable at an earlier stage than it would have been in the home. This would he capeciably true if the tooth were X-rayed. We would therefore expect he level of disease fround during an examination of the condition of the conditio

Thus the treatment that people have had at the dentity's may well have been carried out at a level of detection of decay more searching than that of the survey examination. If, however, the level of detection and treatment of decay in the dental surgery varies regionally then dental treatment may have been applied at different levels in different pieces, in such circumstances it would be applied at different levels in different pieces, in such circumstances it would be reflection of disease but as the result of differences in textument.

One method of detecting decay in its early stages is by the use of X-ray quipment. In the interview we saked people whether they had ever had an X-ray taken of their teeth. Among those aged 16-34 who have some natural teeth, the proportion who said they had had na X-ray at some time was 34-1% in the North, 42-0% in Wales and the South West, 36-0% in the Midlands and East Anglis hat Y-20% in London and the South East Y-20% in London and t

Whether the person has ever undergone restorative treatment must influence, to some cettent, whether or not an X-ray has been taken. Table 6.4 shows the proportion of people, under 3.5, with some natural teeth who said that they had ever had an X-ray taken, according to how many teeth they have that are filled (otherwise sound).

Not many people among those who, at the time of the examination, had no tested that were filled (offserwise sound) had even that at N-ray; that is fower than one person in ten in England and Wales as a whole. For those who did have some filled (offserwise sound) tent, the proportions who and been X-rayed in Lordon and the South East far exceeded the proportions in the other regions. Among people with 12 or more filled (offserwise sound) tent, the proportions who had been X-rayed varied from 89 ½ in London and the South East to 757% in the North It would see one-yellied therefore, that the recional varies.

tion in sound and untreated teetb reflects a regional variation not in disease but in the level of treatment. We therefore go on to examine whether there are further variations in other aspects of treatment.

TABLE 6.4

Whether an X-ray has ever been taken, by region and the number of filled (otherwise sound) teeth

	^	Adults agod 16-34 with some natural teeth					
	Pro	portion who	have ever ha	d an X-ray ta	ken		
The number of teeth that were filled, otherwise sound	The North	Wales and the South West	Midlands and East Anglia	London and the South East	England and Wales		
None filled, otherwise sound 1–5 filled, otherwise sound 6–11 filled, otherwise sound 12 or more filled, otherwise sound All	19-2% (52) 45-2% (73) 57-7% (52)	36-4% (22) 32-0% (25) 64-1% (39)	25-0% (36) 38-6% (62) 62-4% (48)	15-4% (13) 41-7% (48) 70-0% (97) 89-1%(138) 72-0%(296)	29-8% (158 52-1% (257 75-1% (277		

6.5 Regional variations in treatment among adults aged 16-34 The previous sections have shown that on the basis of the dental examination

in the bome, there was no evidence to suggest that a regional difference in the occurrence of decay could be responsible for the regional variation intotal tooth loss. One major regional variation which was evident involved the use of North properties of the superior to the superior that the superior that the Variables discussed in Section 4.

(b) "a difference in the attitudes of patients to dental health and treatment".(c) "a difference in the treatment given by dentists"

As we have said earlier, dental treatment is the result of the interaction of these two people, the patient and the dentist. The relationship is a very involved and often a delicate one, and depends very much on what each expects of the other. Different patients react is different ways to having dental treatment. The design of the exist among dentification, the design of the design of the design of the restatement patient that has resulted from this interaction.

6.6 Filled (otherwise sound) teeth as a measure of treatment

Table 6.5 shows that among people under 35 years old, with some natural teetb, the proportion who bad none that were filled (otherwise sound) was 21-7% in the North, 18-7% in Wales and the South West, 21-6% in the Midlands and East Anglia, but only 4-7% in London and the South East.

People may bave no filled teetb for two reasons. Either they have no disease and therefore need no treatment, or they have disease but have not had restorative treatment.

TABLE 6.5

Distribution of filled (otherwise sound) teeth for adults aged 16-34 with some natural teeth, by region and sex

	Male	s—adults ago	d 16-34 with	some natura	teeth
The number of teeth that were filled, otherwise sound	The North	Wales and and the South West	Midlands and East Anglia	London and the South East	England and Wales
None filled, otherwise sound 1–5 filled, otherwise	28-0	265	262	% ₂	20-2
sound 6-11 filled, otherwise	22.9	24-5	25-0	21-1	22.9
sound 12 or more filled.	28-9	16-4	22-8	33-4	27-5
otherwise sound	20-2	32-6	26-0	38-3	29-4
	100-0	100-0	100,0	100-0	100-0
Base	118	49	92	138	397
Proportion of adults with some natural teeth	924%	94.7%	100-0%	98-0%	963%

	Femal	Females-adults aged 16-34 with some natura							
The number of teeth that were filled, otherwise sound	The North	Wales and the South South West	Midlands and East Anglia	London and the South East	England and Wales				
None filled, otherwise	%	%	%	%	%				
sound 1-5 filled, otherwise	148	12-1	17-0	2.5	10-3				
sound 6-11 filled, otherwise	23-1	18-9	13-9	12-0	16-2				
sound 12 or more filled.	36-1	29-3	43-5	32-0	35-3				
otherwise sound	26-0	39-7	25-6	53-5	38-2				
	100-0	100-0	100-0	100-0	100-0				
Base	108	58	94	159	419				
Proportion of adults with some natural teeth	89-2%	96-9%	94-5%	994%	95-1%				

		Adults aged 16-34 with some natural teeth							
The number of teeth that were filled, otherwise sound	The North	Wales and the South West	Midlands and East Anglia	London and the South East	England and Wales				
None filled, otherwise sound 1-5 filled, otherwise	21.7	18-7	21-6	% 4-7	15-1				
6-11 filled, otherwise	23-0	21-4	19-3	16-1	19-5				
sound 12 or more filled	32-3	23-4	33-3	32-7	31-5				
otherwise sound	23-0	36-5	25-8	46-5	33-9				
	100-0	100-0	100-0	100-0	100-0				
Base	226	107	186	297	816				
Proportion of adults wit some natural teeth	h 90-8%	95.9%	97-1%	98-7%	95.7%				

By far the great majority fall in the second group which consists of people with missing or decayed teeth, for only 2-3% of the under 35's in England and Wales have 27 or more teeth that are sound and untreated (Table 6.2).

At the other end of the scale the proportion who had 12 or more teeth that were filled (otherwise sound) was 23.0% in the North, 36.5% in Wales and the South West, 25.8% in the Midlands and East Anglia, and 46.4% in London and

the South East. Again London and the South East is exceptional.

Table 6.5 shows the distributions separately for the sees as well as all the under 38% together. In all regions women had more filled (otherwise sound) teeth than men did. In London and the South East as few as 25%, of women dared 33, with some natural teeth, had none that were filled (otherwise sound). The other sounds are some sound of the sound of the

Among men of the same age group there was a higher proportion with no filled (otherwise sound) teeth, showing similar regional variations; 28-0% in the North, 26-5% in Wales and the South West, 26-2% in the Midlands and East Anglia compared with 7-2% in London and the South East.

How is it that treatment in the form of filling is carried out at such different levels in different regions of the country? As we have said before, treatment is the result of the interaction of both the patient and the dentist. Orbicously the amount of restource work that can be done by the dentist will be affected by the patient's pattern of dental attendance. In Table 6.6 we show for people under 3.5, who have some natural tech, that their patient or dental attendance than the country of the c

TABLE 6.6 endance pattern, by region

	Adults aged 16-34 with some natural teeth					
Attendance pattern	The North	Wales and the South West	Midlands and East Anglia	London and the South East	England and Wales	
Regular check-up Occasional check-up Only when having trouble with teeth	37.7 14-8	43.4 17.9	459 8-2	51-4 13-8	45-3 13-4	
trouble with teeth	100-0	38-7 100-0	100-0	34-8 100-0	100-0	
Base	226	107	186	297	816	

In London and the South East more people of this age group go to the dentist for a regular cleake up for their natural tech and fewer only go when they have trouble with their teeth than in other regions, but the differences are not as dramatic as the regional variations in the number of filled (otherwise sound) teeth. Nevertheless there is some difference in the declared dental attendance patterns of people in different regions.

We examine in more detail the two larger groups in this classification, i.e.

those who say they attend for a regular check-up, and those who say they only go when they have trouble with their teeth. For each group we show what level of restorative work has been carried out.

TABLE 6.7
Distribution of the number of filled (otherwise sound) teeth according to dental

attendance pottern, by region, for adults aged 16-34 with some natural teeth						
	Adults a	Adults aged 16-34 with some natural teeth, who go to the dentist for a regular check-up				
The number of teeth that were filled, otherwise sound None filled, otherwise	The North	Wales and the South West	Midlands and East Anglis	London and the South East	England and Wales	
	%	%	%	%	%	
sound 1-5 filled, otherwise	1-2	-	1-2	0.7	0-8	
sound	10-7	10-9	4-8	4-6	69	
6-11 filled, otherwise sound	40-4	21-8	42-8	29-6	34-1	
12-17 filled, otherwise sound	38-1	52-1	42-8	48-6	45-3	
18 or more filled, otherwise sound	9-6	15-2	8-4	16-5	12-9	
	100-0	100-0	100-0	100-0	100-0	
Base	84	46	84	152	379	

			Adults agod 16-34 with some natural teeth, who only go to the dentist when they are having trouble with their teeth						
	The number of teeth that were filled, otherwise	The North	Wales and the South West	Midlands and East Anglia	London and the South East	England and Wales			
		%	%	%	%	%			
sound	lled, otherwise	38-7	41-5	41-7	11-7	31-4			
sound	d, otherwise	34-0	31-7	35-7	34-0	34-1			
sound	ed, otherwise	21-7	19-5	20-2	37-8	26-1			
sound	iled, otherwise	56	7-3	1-2	14-6	7-5			
	18 or more filled, otherwise sound	-	_	1-2	1.9	0-9			
		100-0	100-0	100-0	100-0	100-0			
В	isc	106	41	84	103	369			

Among the under 35's who seek regular treatment for their natural teeth hardly anyone has none that are filled (otherwise sound.). On the other hand there is a large proportion who have 12 or more teeth that are filled (otherwise sound.). This level is high in all regions. It was 47-7% in the North, 673%, in Wales and the South West, 51-3%, in the Midlands and East Anglia and 65-2% in London and the South East.

The overall level of restorative work carried out among bose who only attend the denists when they are taxing trouble with their teeth, presents quite a different pieture. Nor only, a second of restorative transmin very much lower to the denist when they are taxing the second of the denist when they have trouble with their teeth, the properties with their teeth, the properties who have tunned 35 but only go to the denists when they have results with their teeth, the properties who have 100 merc field (otherwise cound) is 5.6%; in the North, 7.3%; in Wales and the South West, 2.4%; in the Middlards and East Anglia but 16.5%; in London and the South East.

These figures are very low compared with the regular attanders but in addition London and the South East compared with desherter that there times as many people per hundred who, although they only attended the dentist when key were having trouble, but If or more filled (otherwise sound testin. This regional difference in even more noticeable at the other extreme of restorative transment. Among the under 55 who were not regular attender, he preportion when the contractive transment of the contractive tran

Thus about 9 out of 10 casual attenders in London and the South East bave some evidence of restorative treatment, but elsewhere the figure is only about 4 out of 10. It is this difference in the treatment received by the non-regular attender that accounts for most of the regional difference in the number of filled (otherwise sound) teeth.

We saw in Table 6.4 the regional variation in the level of X-rays associated with the number of filled (otherwise sound) tenth. We have seen from Tables 6.5 and 6.7 that the number of such tenth varies with region and with the different dental attendance patterns. Finally in this section we show, in Table 6.5 the proportion of people who say they have ever had an X-ray, for the different regions, according to the nature of dental attendance to the mattern of dental attendance to the mattern of dental attendance to the mattern of dental attendance.

TABLE 6.8
Whother an X-ray has ever been taken by region and attendance pattern

		Adults aged 16-34 with some natural teeth Proportion who have ever had X-ray taken					
Attendance pattern	The North	Wales and the South West	Midlands and East Anglia	London and the South East	England and Wales		
Regular check up Occasional check up Only witen having trouble with teeth All				84-9% (152) 78-0% (41) 50-5% (103) 72-0% (296)			

For adults, aged 16-34 with some natural teeth, who say they go to the destrict for a regular check-up, the preportion who have ever bad an X-ray varied from 500% in the North to 849% in London and the South East, the latter region being wastly different from the rest of the country. On the other hand, for those who say they only go to the dentist when they have trouble with

their teeth, the comparable proportions who have ever had an X-ray were 18-9% in the North and 50-5% in London and the South East.

in the NOTH and 30.5% in London and the SOUTH EAST.

Thus there was a large variation in the use of X-rays both with region and with dental attendance pattern. The regional variation was so great that young adults with some natural teeth from London and the South East, who have the worst dental attendance pattern, have a similar level of ever having had an X-ray in a pole of a similar age group but with the best dental attendance pattern, in

6.7 The distribution of decay around the mouth

We have shown in previous sections and in the Appendix the number of toth affected with each condition irrespective of which particular teeth were concerned. If each of the thirty-two possible teeth are equally at risk from decay, then this is a realistic method of presentation. If, bowever, the distribution of disease is not uniform around the mouth, then one needs to examine in detail the particular rechain ad particular areas of the mouth which are more (or less)

Table 6.9 shows for each of the thirty-two possible teeth the proportion that fall into each of the different tooth conditions. The table includes adults of all ages, having some natural teeth present. In accordance with charting practice in the United Kingdom, the teeth are numbered, in quadrants, from 1–8, starting from the front of the mouth.

The information comission within the table is very detailed, just the complex variations it shows are of considerable interest. The beadings arens the table indicates the individual teoch and the type of tooth. The fleaters in the table show what the considions of the natural teoch. The fleaters in the table show what the contract of the contract o

Are these tooth conditions similarly distributed for each of the thirty-two teeth? If not what is the nattern for different teeth?

To establish whether decay is equally distributed around the mouth, we look in detail at the proportion of sound and untreated teeth found in each particular tooth position. The figures are abstracted from Table 6.9.

Proportion of teeth found to be sound and untrented in adults of all ages (abstracted from table 6.9)

	Molars			Pres	molars	Canine Incisors		isors
Upper jaw left Upper jaw right Lower jaw left Lower Jaw right	8 154% 164% 153% 13-8%	7 10-8 % 11-0 % 9-6 % 8-8 %	6 58% 58% 46% 50%	5 25-2 ½ 23-9 ½ 32-2 ½ 33-8 ½	4 29.3 % 28.2 % 57.5 % 56.8 %	3 59-4% 61-4% 88-3% 87-3%	2 49-8 % 51-4 % 90-7 % 91-2 %	1 56-0% 55-4% 91-7% 91-3%

The variation in the proportion of sound and untreated teeth for a particular tooth position is about as great as it could be. Fewer than 6% of the "sixes" are

TABLE 6.9
The distribution of tooth conditions for each tooth position

						Adults	of all a	gos, wi	Adults of all ages, with some natural teeth	natura	tooth					
								Upper Jaw	- Jaw							
				Laft								Right				
Condition of tooth		Moiars		Premolars	state	ģ.a		Incisors	São		ģ.s	Premolars	olars		Molars	
	90	7	9	S	*	6	2	1		2	m	4	s	9	1	00
Sound and unfrested	22	% 10.8	25%	22%	28%	29%	×8	%8	%8	% SI:1	% <u>4</u>	28:2	23%	%% 80	11.0	74.5
Crowned or bridged	ı	ŀ	0.2	2	63	5	6.9	2	1.5	13	0.2	0.5	0.1	1	1	0.1
Fillof, otherwise sound	21.8	41.2	30.2	27:7	27:12	12.5	17:1	160	15-6	17.0	13-6	29-0	29.5	33.2	42.4	18.3
Filled and decayed	2:1	3,00	ĭ	2.0	1.7	2.2	2.0	9	2.2	2.9	6:1	1.9	2.0	2.9	3:1	2.0
Decayed, not previously treated, but restorable	4.8	85	2.6	5.9	2	3.6	2	5	55	4.7	4.3	7,	3.2	2.4	5.8	3.6
Not restorable	2.2	1.6	1.2	2.0	1:7	7	Ξ	0.5	9	0.8	1.0	1.5	1:3	1:8	4	1.2
Missing	53-7	36.8	9995	39-8	363	18.8	23-3	20-1	19-4	22:2	17-6	35.8	39.9	53.9	363	58.4
	0-001	0.001 0.001	100-0 100-0		1000	100.0	100-0	0-001	1000	1000	100-0	1000	0.001	100-0	0.001	0.001
						1	1				1		1		1	١

						Adults	Adults of all ages, with some natural teeth	325, wft	th some	natura	tooth					
								Lower Jaw	r Jaw							
Condition of tooth				Left								Right				
		Mohrs		Prem	Premolars	ing.		Incisors	\$305		-pag-	Premolars	olars		Molars	
	∞	-	o	s	4	5	2	-	-	64	6	4	2	9	7	00
Sound and untreated	%2	%%	%4	322	57.5	%8 38 38 38	%6	% <u>c</u>	%E	×2.	%6	×%	% 8.5	76%	%.e	%2
Crowned or bridged	1	ŀ	0.3	0.2	1-0	I	-6	0.0	1	1	1	0.1	2	0.3	2	1
Pilled, otherwise sound	21.0	36.9	25.5	29.3	22.8	4.6	2.9	1.7	2.0	2-4	5.	21.7	29.0	25.7	37.0	22.7
Filled and decayed	2.5	4.0	3.5	2.2	1.7	6.0	5	0.1	0.2	0.2	0.4	1.2	2.1	5,8	4.3	1.7
Decayed, not previously treated, but restorable	÷	2	2	9.0	3.5	2.7	7	6.0	Ξ	8:1	7	6.0	2	2	25	3.7
Not restorable	1.7	2.1	2	2	Ξ	8.0	9.0	0.5	0.5	86	60	9:1	2.4	52	20	13
Missing	55.4	43.3	62.7	31.0	13:3	2.7	4.2	5.0	4.9	3.6	3.2	14-6	29-0	63-2	43.3	995
	0.001	1000	1000	1000	1000	1000	1000	1000	1000	1000	0.001	1000	1000	1000	100.0	1000
Baye-1694																

sound and untreated but over 90% of the lower incisors are sound and untreated. There are obviously some areas of the mouth which are a lot less prone to decay than others for these figures refer to adults of all ages, who have some natural teeth.

What are the patterns of disease? The first thing that stands out is that, looking at each quadrant separately, each tooth from 1-8 has a distinctly different proportion completely free from disease, with one exception. The lower incisors 1 and 2 are like each other. Apart from this, however, the tooth types, such as molars, premolars, do not have a pattern which embraces the whole group. Thus the actual position in the quadrant is imnortant.

Given that the individual teeth in each quadrant show large differences, are three any similarities in the quadrants? Upper quadrant are very similar to each other, lower quadrants are very similar to each other, but there are very distinct differences between the upper and lower jaws thus demonstrating the symmetry of caries. The most nearly comparable upper and lower teeth are the mostaw where the level of disease appears to be slightly shiper in the lower jaw. Deposed that the upper and lower jaw draws are and have a pattern unique to considerably higher in the lower jaw.

Table 6.10 shows the testh grouped in as like kinds as possible. Each group includes four testh. If deep had been evenly distributed then each of these groups of four testh could have been expected to contribute equally to the tooth conditions. Since deep is differentially distributed around the mouth we examine which particular teeth make the most contribution to the different tooth conditions.

Of all sound and untreated teeth 68-2% were found among canines and incisors, but canines and incisors account for only 12 of the 32 teeth. Only 9-5% of the sound and untreated teeth were found among the molars although these also account for 12 of the 32 teeth.

The molars were in fact responsible for 52.2% of the filled (otherwise sound) teeth, premolars were responsible for 31.7% of the filled (otherwise sound) teeth but only 16.1% of such teeth were found among canines and incisors. Decay was fairly evenly distributed among tooth types except that it did not exist to the same extent among lower incisors.

TABLE 6.10

Presention of each tooth condition that is accounted for by different teeth

		Adults of all ages with	th some netural test	x
	Sound and untreated	Filled, otherwise sound	Decayed	Missing
Pa Ps Motars	\$7 31 17 9-5	12-3 23-1 16-8 3 52,2	141 102 122 45-5	23-3 13-9 23-3 61-7
Upper premolars Lower premolars	8-3 22-3 14-0 22-3	15.1} 31.7	[2-3]} 25·2	15:1} 23:9
All casines Upper incisors Lower incisors	23-4 16-6 28-5 100-0	32 93 13 1000	11-2 16-3 3-6 1600	#2 #4 16 1000

The molars accounted for 61-7% of missing teeth whereas the same number of possible teeth among canines and incisors accounted for only 14-4% of missing teeth.

missing teetb.

Thus the different tooth types contribute very differently to the number of teeth found to be in the different tooth conditions.

In view of this large amount of variation in decay around the mouth, subsequent analyses of specific groups of the population make use of results shown tooth by tooth to indicate the area of disease and treatment.

Two particular types of teeth, the 6's and the 8's, that is two of the three molars in each quadrant, require special mention for they bave unique circumstances affecting their dental condition and their treatment.

(a) The Sixes

These are the first of the three molests to crept in each quadrant, and a son bease from Table 5 of they have the highest mortilary raise and the bown level of the sone from Table 5 of the bown level of the control o

It is unfortunate in these circumstances that molars appear to be very much more prone to decay than incisors. Since many parents are probably unaware that attendance for treatment of permanent back teets can start as early as at six years old, it is possible that it may be several years before dentall treatment is sought, by which time the 'sixes' may well bave deteriorated quite considerably.

This situation together with sbortage of manpower results in forms of treatment being earried out which otherwise would probably not occur. For example the Chief Medical Officer of the Ministry of Education issued the following statement in his report "The Health of the School child 1957-58".

The Extraction of Six-Year Molars

In past reports in this series it has been pointed out that a shortage of destant officers in an area measurement some criterious in efforts of concernitor treatment, such orientation calls for a policy of extraction of those texts which are so carious that a disreportion calls for a policy of extraction of those texts which are so carious that a disreportion could be a contraction of the c

Mr. E. Copestake, Principal School Dental Officer of Sheffield, writes in his report for 1956:

"Children leaving school should be neemally in possession of 28 permanent teach Four of these teach, the irre permanent cocher, caughing when the children's years of age, are often so body exheined and maccopille to desay then the children's year long superinces of the treatment of children, extract these teach without question in curios-acceptible children at nine to ten years of age. Evidence to support this practice is well established and is fully justified in those cause when regular conservalve treatment in rejected. It relieves the difficulties associated with jewe insufficiently integra to accommodate all the preminent teeth and allows the enquiron, later on, of the wind teen teeth without impaction. It is these first permanent moder teeth which make up the tolk of the permanent teeth extracted in the clinical and under present circumstances this cannot be avoided nor can the indiscriminate preservation of these teeth be comissioned as desirable."

The currenton of the four first permanent median is particular and matter specialised productions of the policy of admiration and an entreation of of concernation of concernation of the concernation of the

Many school dotated officers do a lerealy extract the four six-year molars in cases which they consider suitable. This treatment policy is discussed here because it seems desirable to indicate the official viewpoint regarding its wider adoption when the need is no great for school detault officers to use their time and efforces to be best always, it is not exception, every child thought have the four first permisent molars extracted as a routine measure.

Thus it would seem that at the early age of 9 or 10 years, children may be looking some of their permanent teach. From the interview we have some ovidence that people may not have realised that such extractions were of permanent deutstion. During the interview we adopt people which of their teach they had lost. This was done in considerable detail using a chart to distinguish the different seeth in the mouth. When comparing the individual's statements with the detail examination, we found that they were very accurate about the second moders, but very inaccurate about the first modars.

TABLE 6.11

Proportion of first and second molars found to be missing in the dental examination compared with the proportion said to be missing by the informant

Proportion of particular	_	Aged I	6-34			Aged 3	5 or more	
teeth that were missing	М	ale	For	nale	м	ale	Fer	nale
-	Exam	Self	Exam	Self	Exam	Self	Exam	Self
Upper left 6 Upper left 7	39.3 % 17.4 %	19.6%	37.5% 16.5%	20-0% 14-6%	72.7 % 53-1 %	52.9% 51.6%	74-6% 57-6%	54-7% 54-2%
Upper right 6 Upper right 7	39.0% 164%	21.2%	34.8% 16.5%	21.2% 15.8%	67-9 % 52-5 %	49.7% 49-5%	71.9% 57-3%	54-4% 53-2%
Lower left 6 Lower left 7	52.4% 25.4%	28-2 % 26-2 %	45.6 % 26-0 %	28.4% 22.7%	73-3%	52-7% 54-4%	77-2% 66-2%	58-3 ° 59-0 °
Lower right 6 Lower right 7	50-1%	28-7% 29-5%	49-2% 24-1%	27.4%	73-3% 55-3%	52.7% 54.4%	78-7 % 64 0 %	57-65 59-25

Thus there was very good agreement about second molars but close to a difference of 20% over first molars. The level of this difference was similar for the older and younger groups. This vaggests that the less of the 'vicer must have cocurred at an age younger than the range included in the survey, that is before 16 years of age. Fousibly some people thought that the toeth they had out were "mike" teeth; perhaps for some of them the pips had closed to such an extent that they were no longer aware that any teeth were missing. Whatever the reasons that they were no forger aware that any teeth were missing. Whatever the reasons of its appears that a farse proportion of farst motions were probably lost at a very large year.

This policy of extractions must be kept in mind when analysing the level of disease for particular teeth, for here is one tooth type where extractions may not have been the result of active decay but the result of a policy decision involving symmetrical extraction.

(h) Wisdom teeth

The third molass are often known as windom teeth. These teeth crupt last of all. People gas them at varying times from last exent so mid-chirties, while in some people they never crupt and occasionally are not formed. If the mouth is fairly crowded with teeth then the windom teeth may have difficulty in crupting in their proper position. In such cases it may be necessary to extract a windom tooth, maybe hefore it has errupted.

In the dental examination teeth were charted according to whether they were present or missing. It is impossible to tell, in any examination of this type, whether a missing widom tooth has been extracted or has never erupted, in order to make some listed estimates of how many of the missing widom teeth had in fact mere come through, we asked a series of questions in the interview, the missing widom teeth and the present of the present of the present of the but most peculie were also be given used indication.

In Table 6.12 the figures are shown separately for males and females and for those aged under 35 and those aged 35 and over. The examination showed a lower level of missing wisdom teeth among the younger group than among the older group. It is interesting to see from the interview information the level given for extracted wisdom teeth and non-crupted wisdom teeth. It is probable that the 'don't knows' are more often non-erupted teeth than extracted ones. About 11 % of men aged 16-34 had had a wisdom tooth (upper left 8) extracted, the level was similar for each of the wisdom teeth. About 23% said that wisdom tooth upper left 8 had never crupted, again the level was similar for all wisdom teeth. Ahout 9% of men aged 16-34 did not know whether each wisdom tooth had been extracted or had never erupted. Among women aged 16-34 a slightly higher proportion of wisdom teeth had been extracted and a considerably higher proportion had not yet erupted, reflecting the fact that women tend to get their wisdom teeth later than men. Fewer women did not know whether wisdom teeth had been extracted or had not erupted. Thus among those aged 16-34 the major reason for missing wisdom teeth was non-eruption.

Among the older group the difference between the sexes in the level of nonempted wisdom tenth disappeared. With this age group the emphasis change from non-erruption to extraction as the major reason for missing wisdom tenth. The figures suggest that even among those aged 35 and over about 13% of the contraction of the contraction of the contraction of the contraction is probably higher that we have received. The actual level of non-eruptions is probably higher the contraction of the contraction of the contraction of the contraction of the tenth had ever empted or not will never have had wisdom tenth.

TABLE 6.12

			Adult	Adults aged 16-34 with some natural teeth	h some natura	1 seeth		
		M	Male			Fen	Female	
	Exam		Self		Exam		Solf	
Wisdom tecth	Missing	Extracted	Not Erupted	Don't Knew	Missing	Extracted	Not Erupted	Don
Joner left 8	42.6%	11.3%	23.2%	9.3%	51-8%	14.8%	35.3%	80%
Jones right 8	45.8%	12.8%	22.9%	91%	89-4%	16-2%	36.0%	20%
Lower left 8	44.6%	11-8%	23.2%	%96	83.0%	11.9%	38-3%	41%
Lower right 8	469%	12.3%	23.7%	%9-6	56.3%	12:2%	37.2%	41%
			Adults aged	35 or more with	some natural	teeth		
Unoer left 8	57.3%	35.6%	13-4%	10.0%	62.1%	39.6%	12.5%	11.8%
Unoer right 8	20.08	33.4%	134%	10.6%	%9-89	42.4%	12.0%	12.5%
Lower left 8	58.8%	32.8%	11.7%	93%	64.5%	38.4%	11.5%	12.9%
Lower right 8	57.3%	31-0%	124%	10.2%	65.2%	37-6%	12.9%	13.7%

58

6.8 Distribution of decay around the mouth for two different age groups

As age is such a very important factor with regard to dental bealth we show the distribution of decay around the mouth for those adults who still have some natural teeth for the two main age groups, adults aged 16-34, and adults aged 35 and over. We have already, in Section 6.7, described the form taken by tables showing the conditions tooth by tooth. The base statistics are given in the Appendix but a simplified version of the table is shown in diagrammatic form in figure 6.1. At the top of the page is the diagram for all ages, helow on the left adults aged 16-34 are represented, below on the right adults aged 35 and over are represented. The figures are made up of two parts, the upper iaw and the lower jaw. The individual tooth positions are marked. The area of black shows the proportion of each tooth type that is missing. The area of red shows the proportion with active decay. The area covered with dots shows the proportion of each type of tooth that has been filled and is otherwise sound. The grey area represents the proportion of teetb found to be free from decay and never having been treated.

The lower part of each diagram, which represents the lower jaw has been inverted so as to diagrammatically represent the mouth. The statistics on which these diagrams are based can be found in the Appendix.

Among adults aged 16-34 with some natural teetb very few of the molars are disease free, with the 6's and 8's having a high proportion missing. The upper canines are particularly outstanding in their freedom from disease. In the lower jaw the six front teeth are very largely free from decay. The lower molars are heavily diseased as are the molars in the upper jaw.

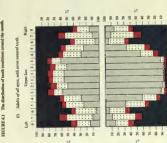
Among adults aged 35 and over who still bave some natural teeth, the lower jaw has a pattern of decay and treatment which appears to be a natural progression from the state of the teeth in the younger age group. Molars are fairly frequently missing, but although there has been some little advance in decay on the front lower six teeth this is very small.

The picture of the upper jaw, of those aged 35 or more, is not such a natural progression. The molars and premolars have suffered a decline which is somewhat similar in pattern to the younger age group but the upper canines and incisors have altered, at least in respect to the level of disease free teeth. The mouth appears to bave, by this time, become much more visibly partitioned into tbree areas. Over 50% of all teetb 4-8 on the left are missing, over 50% of all teeth 4-8 on the right are missing. About 30% of front teeth 3 to 3 are missing. The pattern of missing teeth among the younger age group was not so equally distributed for different tooth types

It must of course he rememhered that decay is not the only cause of tooth loss, and although it looks as if the same kind of influences are acting on the bottom jaw of the two age groups, some other reason for tooth loss enters into the loss rate for the top jaw teeth.

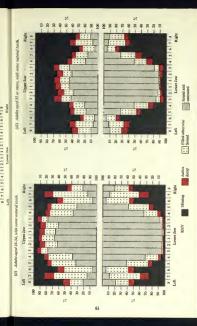
In later sections (8, 9 and 10) we discuss patterns of tooth loss and the resultant provision of dentures. The results show that there is a difference in provision and acceptability of dentures for upper as opposed to lower jaws. There is also a difference in provision and acceptance of dentures to replace some, rather than all, of the teeth of one jaw. The most acceptable situation for

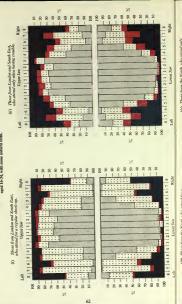
LONG! Jaw

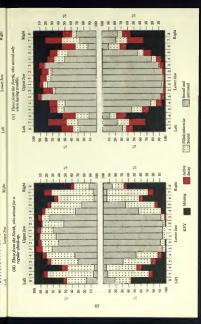


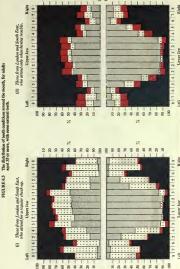
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FIGURE 6.1 The distribution of tooth conditions around the mouth.





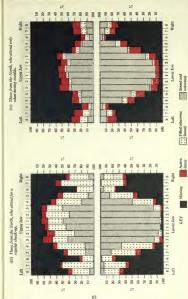




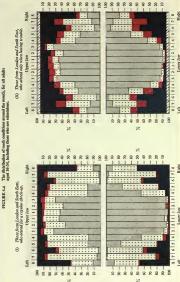
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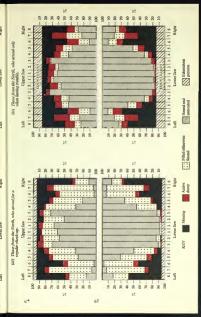
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for the lower jaw. The least acceptable situation is a partial denture for the lower jaw only. As far as the lower jaw is concrued it is rare for a full lower denture to be made to oppose natural teeth in the upper jaw. Therefore those who have a lower jaw cleanare will be found among the edemaious. On the other hand a full upper denture can be opposed by natural lower teeth and it a nortial lower denture.

Consequently the pattern of tooth loss among those who still have some natural teeth will he influenced by the provision of dentures, and upper and lower jaws will he differently affected. Among those aged 35 and over the upper law will be considerably affected, whereas the lower jaw will he affected very little.

6.9 The distribution of decay around the month according to dental attendance pattern

In section 6.6 we found that there was a large difference in the proportion of filed (otherwise sound) eith according to region and dental standame pattern. We now investigate this further, by locking at the distribution of tooth conditions around the mount for propels with different dental standame patterns. We have used the two extremes of dental attendance pattern, those who go for a register between, and those who only a referentiation and assimilation, the results have been summarised in figures 6.2 and 6.3. The base statistics are given in the Appendix of the property of the conditions are such as the condition of the property of the conditions and sentimized to the property of the conditions and sentimized to the property of the conditions are such as the property of the conditions are such as the condition of the property of t

In figure 6.2 we causine, for comparison, the groups of people most likely to show differences. The top left 'most life-figure, made up of upper jaw and lower jaw, shows the decay and treatment situation for adults aged 16–3 with some natural text, has sense deposing filtered away and was been in London and the South East. The street deposing filtered is very right. The street deposing filtered is very right and the people of the street of the s

The 'mouth' depicted at the lower left is that of adults aged 16-34 with some natural earth from the North, who stand for a regular check-up. The annual cent from the North, who stand for a regular check-up The and tillings here in higher than adults in London and the South East who only attend when having trouble, but lower than the regular check-up people. Again upper permolars are not so frequently filled.

At the lower field we have those adults aged 16-34 with some natural teeth

who live in the North and only go to the dentity when they have trouble with their teeth. The level of fillings is very low, the level of active decay is high. The apparent level of sound and untreated teeth is high. This again is a reflection of the regional variation in the use of X-rays. The outstanding comparison, of course, is the difference in the amount of filling carried out in the mouths of regular attenders in London and the South East, compared with the fillings

A detailed examination of the regional pattern of dental attendance, together with the length of time since the last dental visit will be found in section 11.2.

carried out among those in the North who only go to the dentist when they are having trouble with their teeth.

A similar comparison is carried out in figure 5.1 for adults aged 35 and over with once natural tools. It is obvious from these pictures that considerable with once matural tools. It is obvious from these pictures that considerable with the considerable of the considerable of the considerable of the detail standards for once considerable time, and that these are the mouths that when having tousles with their such, the level of fiftee teach is very low for both when having tousles with their such, the level of fiftee teach is very low for both only and the considerable of the considerable of the considerable of the considerable when having tousless with their such as the considerable of the considerable tousless the considerable of the considerable of the considerable of the considerable teach and the programs for those mouths does not look very hoppful. Despite the unforwards her orientoment, however, we see that the lower as from seat-

When comparing adults with some natural tent in the two major age groups (Ic-34 and 35 years and over) it is impossible to cell whether the differences are the result of age or the result of changes in the provision of dental treatment. From the amount of restorative treatment found among people who only attend the dentit when they are having troubles with their tenth, in the two different age groups, there is privales some hope of the younger group retaining more of their groups, the contradition of the proper of the proper of the proper of the property contradition of the property of the property of the property of the property of the tregular dental attenders appears to have been considerably greater in London and the South East than in the North.

We have discussed the effect of different dental attendance patterns and treatment on the dental health of adults with will have seen entired teeth. But this is only part of the effect of lines two variables. Where do the educations if the time the pattern? We required of the younger group of educations (16-34) years to the pattern of the experiment of the property of the pattern of 16-34 per seen and With this information we can present the distribution of tooch conditions around 16-34, including those who are electrically. Figure 6.4 thus depicts the full effect of attendance patterns and retreatment on this gar range, Among additing and 16-34, who attend for a regular check-up, in London and the South East, now were who attend for a regular check-up, in London and the South East, now were

The variation in amount of conservative treatment observed when comparing the extremes of figure 6.2 is obviously even greater when, in figure 6.4, adults who have lost all of their natural teeth are included in the analysis. It cannot therefore be stressed too forcefully that attendance pattern and treatment play a very large part indeed in people keeping their natural teeth.

7.0 GUM DISEASE

By 'gun disease' we rifer simply to the common condition which causes the loss of the supporting tissues of the teeth, by attack from within the mouth. Thus gum disease can only exist when a tooth is present. This excludes other diseases and conditions of the jurs such as tumoure, cysts, abscesses and other infections which may also cause gum damage and tooth loss but are far less common.

Gum disease, like dental decay, is a progressive condition. It starts as inflammation and progresses towards the destruction of the union between the

gam, the bone and the tooth. This process of inflammation and destruction continues slowly down the root of the tooth braiking down the connections between the root of the tooth and its supporting bone, centually destroying the supporting bone. Suppringingly the root of the tooth trail is rarely affected. Ultimately there is too little bone left to support the tooth, which becomes loose and sidther after on two to be extended, come disease proceeds and different rates in different people and is wittenly patients. If remarks different rates in the contract of the contract of the contract of the contract of the If returnees it delegated to lone it it was not be possible to save the tooth.

Two oral conditions play a part in the initiation of gum disease. These are alique and calculus for attarts, Stages in the progress of the disease are noted by the use of special terms, piagivitis, pocketing, recession, and loose teeth. In the Appendix there is a detailed account of how the dental examination attempted to measure these conditions. Here, for information, we give a brief description of the conditions.

(i) Plague (not measured in this dental examination)

Plague is the name given to the layer of soft food debris mixed with nucles epithelael cells, blood cells, hatteria, e.c., which forms on the surface of texth if they are not thoroughly cleaned. If left undisturbed oral bacteria will flourish and multiply, producing toxins and acids which can then initiate the inflammation and destruction which is the start of sum disease.

(ii) Calculus or tartar

Calculus is also deposited on the teeth but unlike plaque is a very hard, stooy material the formation of which is associated with the flow of saliva in the mouth, in association with plaque deposits. Regular tools brushing and prevent much of its formation or surfaces accessibly the plant of the plant

(iii) Gingivitis

Gingivitis is the name given to the initial inflammation of the gum in which it becomes swollen, shiny, redder than normal and liable to bleed painlessly if brusbed or scraped. Gingivitis may affect localised areas of irritation, or it may become generalised round the whole mouth.

(iv) Pocketing

Pocketing is the mane given to the stage of the disease where a cleft or pocket has formed between the tooth and the supporting tissues. In the bealthy gum a small pocket or collar exists around the neck of the tooth where the gum joins, it, but this is only about 1 mm deep, In the diseased pocket this depth may be increased to as much as 10 mms. This is still a painless condition but the area may blend when brushed.

(v) Recession

Recession describes the process by which an affected gum will recede down a tooth and thereby expose more and more of the root. This is commonly seen in old age. Pain may be experienced due to sensitivity of the exposed root of the tooth but this is not common.

(vi) Loose teeth

This is the final stage in the gum disease process. At this stage no treatment can improve the condition and either the loose teeth will be extracted or, if left unattended, may be shed naturally.

7.1 The gum conditions of adults

Gum disease is a very difficult state to measure. Notwithstanding this, some attempt must be made to assess the importance of these conditions in relation to the dental health of the community.

Table 7.1 shows for adults who have some natural teeth, the average number of teeth that are missing, the average number that are present and without any form of pum disease, and the average number of teeth with some form of gum disease. Any one tooth may have reddence of more than one of the conditions of the gum conditions, if totalled, exceeds the average number of teeth with some gum disease.

TABLE 7.1

The average number of teeth with each gum condition according to age and sex

				Adults w	ich some n	abscill tee	th		
The average number of teeth with each gum	-	Lged 16-3-		Aged 35 or over			All agas		
confitten	Male	Fursale	Total	Male	Female	Total	Male	Funnie	Total
Mining No gern disease Seese garn disease	6-3 18-3 7-4 32-0	5-6 32-0 3-6 32-0	6-4 19-1 6-5 32-0	12-8 8-8 19-4 32-9	140 6-8 9-2 320	13-4 9-3 9-3 32-0	9-6 13-2 9-0 32-0	10-3 14-6 6-9 32-0	10 i 140 79 320
Calcular Cingivitis Pocketing Recession Loose teeth	4-9 4-2 1-1 0-5 0-0	34 35 10 04 09	4-1 3-8 1-1 0-4 0-0	70 5-3 3-2 3-3 0-3	5-7 4-2 2-3 1-0 0-2	6:5 4:8 2:4 2:6 0:3	6-2 4-8 2-3 2-0 0-2	4-5 3-8 1-7 1-1 0-1	5-4 4-3 2-0 1-5 0-2
Base murber	397	419	816	461	417	578	858	836	1694

On average adults aged 16-34 who had some natural text had 6-7 that were missing 6-7 that had some out of gund diesea and 19 that were unsufficted by gun diesea. Some of the text affected by gun diesea Some of the text affected by gun diesea Some of the text affected by gun diesea had more than one of the tourlitions present. On average 4 feets theored calculus, 4 that associated gringvists, 1 had pocketing. The level of recession and loose text his, as one would expect in this age group, fairly tow. Men in this age group das on average two texts more than women that were affected by gun trouble, both calculus and playfixits faigure more promisents.

Among people aged 35 or over, who had some natural teeth, there was of course a much higher level of tooth loss. On average 33-14 teeth were missing. Also there was a higher average number of teeth affected by gum disease, an average of 9-10 teeth. Thus as well as the absolute level of gum disease heing higher, the proportion of teeth present that were affected was very much higher than among those under 35 years old.

Among the older age group there was also a higher level of multiple conditions occurring on one tooth. On average 9-10 teeth were affected by gum disease but for the particular conditions there were on average 6-7 toeth with calculus, 4-5 with gingivitis, 2-3 with pocketing, 2-3 with recession and some evidence of loose teeth.

Thus the more serious stages of gum disease are more evident among the people of greater age.

7.2 Regional variations in gum disease

As with detail decay, we cannine those people in the survey agad 16-34 who still had some antant leeth, to see whether there was a regional variation in gun disease. Among this gap group the vast majority still retained most of their natural teeth, 26-39, had 24 or more teeth present, and 297/h, had 36 or more teeth present. Thus there were large numbers of teeth present and as trick for gun disease. In Table 72-we show the distribution of the number of teeth that had, associated with them, one or more of the gun conditions recorded in the detail extansition (calculus, gingivity, pocketing, recession, or loose teeth).

TABLE 7.2

The number of teeth with one or more of the gum conditions among adults aged 16-34 with some natural teeth, by region

	Adults agod 16-34, with some natural teeth							
Number of teeth with one or more of the gum conditions	The North	Wales and the South West	Midlands and East Anglia	London and the South East	England and Wales			
No teeth with gum	%	%	%	%	%			
disease 1-5 teeth with some	30-9	31-1	29-0	23-3	27-5			
gum disease 6-11 teeth with some	22-9	18-9	22-9	23-3	22-4			
gum disease 12-17 teeth with some	27-8	34-0	33-9	28-1	30-1			
gum disease 18 or more teeth with	11-7	11-3	9-3	14-5	12-2			
some gum disease	6-7	4-7	4.9	10-8	7-8			
	100-0	100-0	100-0	100-0	100-0			
Base	226	107	186	297	816			

Table 7.2 shows for the age group 16-34 the distribution of the number of toth with some kind of gum trouble, that lies behind the averages showed in Table 7.1. It also shows how the distribution varies in the different regions. In England and Walls as a whole just over a quater of adults aged 16-34 with Taggiand and Walls as a whole just over a quater of adults aged 16-34 with the property of t

Among those aged 35 and over who had some natural teeth over 90% had some gum disesse; thus of all ages the proportion of people who still have some natural teeth who also showed some form of gum disease was 82-5%.

A fairly similar amount of gum disease occurred in all the regions, although London and the South East showed a slightly higher level of gum disease than elsewhere. This variation was not anything like the regional variation found with the proportion of teeth that were decay free.

In earlier sections about decay and its treatment (see Table 6.7) we found that he large regional difference in the level of fillings was mostly accounted for by the different treatment received regionally by those people who only go to the dentist when they are having trouble with their teech, Although we have found no large regional variation in gam disease among adults aged Tee 9.4. It is of there is with this, and whether regional patterns are then different.

TABLE 7.3

The number of teeth with one or more of the gam conditions among adults aged 16-34, with some natural teeth, according to attendance pattern and region

	Adults aged 16-34 with some natural teeth, who generally go for a regular check-up							
Number of teeth with one or more of the gum conditions	The North	Wales and the South West	Midlands and East Anglia	London and the South East	England and Wales			
	%	%	%	%	%			
No teeth with gum disease	43-9	45-6	41-7	27-0	36-6			
1-5 teeth with some gum disease	25-0	15-2	21-4	27-0	23-8			
6-11 touth with some gum disease	20-3	28-3	29-7	23-6	24-8			
12-17 teeth with some gum disease	4-8	65	3-6	12-5	7.9			
18 or more teeth with some gum disease	6-0	4-4	3-6	9.9	69			
	100-0	100-0	100-0	100-0	100-0			
Buse	84	46	84	152	366			

	Adults aged 16-34, with some natural teeth, who go to the dentist when they are having trouble								
Number of teeth with one or more of the gum conditions	The North	Wales and the South West	Midlands and East Anglia	London and the South East	England and Wales				
	%	%	%	%	%				
No teeth with gum disease	25-5	19-5	15-5	17-5	19-8				
1-5 teeth with some gum disease	19-8	24-4	22-7	17-5	20-4				
6-11 teeth with some gum disease	31-1	39-1	39-1	34-0	35-0				
12-17 teeth with some gum disease	15-1	12-2	15-5	19-4	16-2				
18 or more teeth with some sum disease	8-5	4-8	7-2	11-6	8-6				
some gam entra	100-0	100-0	100-0	100-0	100-0				
Base	106	41	84	103	334				

As with decay, a much higher proportion of those who are regular attenders have small amounts of disease, in this instance gum disease, than is the case for those who only go to the dentist when they are having trouble: of those who said they go for a regular check-up 36-6% had no teeth with associated gum disease compared with 19-8% of those who only attend when they are having trouble with their teeth.

At the other end of the scale there was a curious distribution. The regular and irregular attenders had similar levels of people with 18 or more teeth affected hy gum disease, but at the level 12-17 teeth affected the irregulars were very

much worse than the regular attenders.

The regional variations reflected the overall regional picture discussed earlier in this section. London and the South East had more gum trouble whatever the dental attendance pattern.

7.3 Distribution of the gum conditions around the mouth

The different gum conditions which, in this survey, contribute towards gum disease are quite varied. We turn next therefore to examine them individually to see what part they each play, and, in so doing, examine which teeth in the mouth are most at risk for the various conditions. As with the tooth conditions relating to decay, we present this data diagram-

matically. The hase statistics are presented in the Appendix.

Figure 7.1 presents, for adults used 16-34 with some natural teeth, the distribution round the mouth of the four main gum conditions, (the fifth, loose teeth, occurs very infrequently in this age group, and is only shown in table form). Again as with the previous diagrams upper and lower laws are shown separately and the display shows each individual tooth. The top left 'mouth' shows the level of calculus found on the under-35-year-olds. In the upper jaw calculus is distributed around the mouth at a fairly low level but especially on teeth six and seven; that is at the point of secretion of the saliva glands. In the lower jaw the picture is quite different. The lower six front teeth* are highly affected by calculus. The level is greatest for 'ones' slightly less for 'twos' and decreases again for 'threes'. Practically half of lower incisors are involved with calculus.

The top right 'mouth' shows the level of gingivitis. For this condition there is a fairly even distribution around the mouth except for the lower six front teeth. The amount of gingivitis here is approaching double that for other teeth in the mouth. Except in this area of the lower front six teeth, the level of gingivitis exceeds the level of calculus. At this age pocketing and recession occur fairly infrequently.

Figure 7.2 presents similar results for those aged 35 and over who still have some natural teeth. As remarked upon earlier the reader will notice that there has been a marked loss of teeth from the upper jaw, for this age group. Although there has been a substantial loss of back teeth from the lower jaw this has not heen accompanied by any large loss of front lower teeth.

The levels of all the gum conditions are much higher for this age group, the teeth most affected heing the lower front six. It is curious to see how the maximum frequency of gum disease is associated with the teeth most universally retained in the mouth.

^{*} Six front teeth defined as canines and incisors (refered to numerically as 3, 2, 1, 1, 2, 3).

7.4 Distribution of the gum conditions around the mouth according to dental attendance pattern

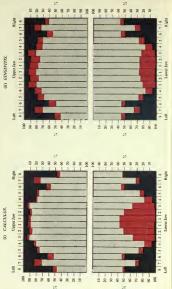
The Figures 7.3–7.6 show diagrammatically the level and distribution of the various gum conditions for the two different age groups and according to whether the adults attend for a regular check-up or whether they only go when having trouble with their teeth.

For those who are under 35 years old the difference in the level of calculus according to dental attendance pattern is very great. In the lower jaw about 40% of the 'ones' had calculus among the regular check-up people. Nearly 70% of the 'ones' among irregular attenders had calculus on them.

Gingivitis occurred more often among those who were irregular dental attenders but there was a considerable amount of gingivitis even among the regular check-up people. Pocketing and recession were worse for the nonregulars but still occurred at a low level in this age group. Amone those aged 35 and over we have already seen that the levels of all gum

conditions are higher. The regular check-up people do not excape gum disease, bout the non-regular attenders have a higher level of trouble which is also more widespread. By this age about a quarter of the total number of lower front teeth are showing pocketing and/or recession among those with a non-regular attendance pattern. Despite this the teeth are still standing.

FIGURE 7.1 The distribution of gum conditions around the month, for adults aged 16-34, with some natural teeth.



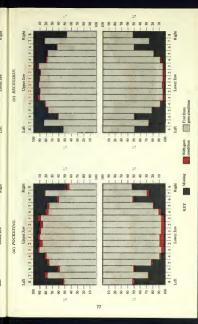
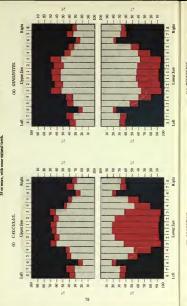


FIGURE 7.2 The distribution of gum conditions around the mouth, for adults aged 35 or mose, with some intural teeth.



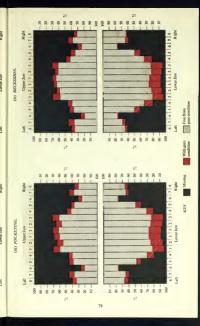
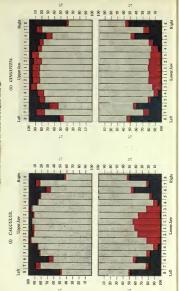
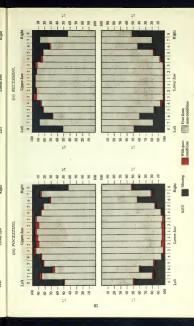
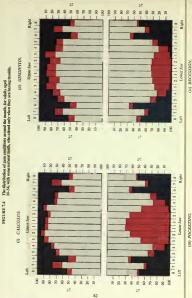


FIGURE 7.3 The distribution of guan conditions around the mouth, for adults aged 16-34, with some natural teeth, who attend for a regular check-up.







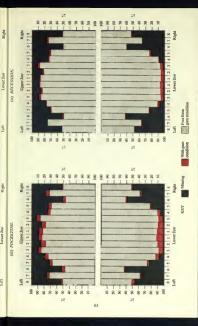
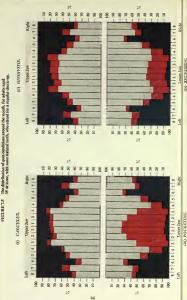


FIGURE 7.5



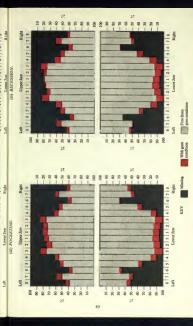
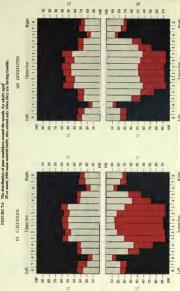
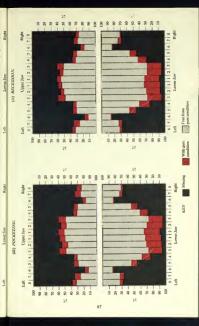


FIGURE 7.6 The distribution of gum cond



GO RECESSION

Court Jaw





PART IV_DENTURES

A desture is defined as a removable plate with false tech attached. People with no natural steth desturtes consist of an upper and a lower plate carrying up to twenty eight teeth. No replacement is made for wisdom teeth. For people with some natural teeth and some false teeth the denture they need may consist of both an upper plate and a lower plate, or either an upper plate or a lower plate. The number of teeth on a plate may way from one to fourteen.

To avoid confusion in terms about people who have a combination of natural and false teeth the following definitions will be used for denture wearers.

Α	totally	dent	urea	person	provided teeth.	with d	no n lentur	es sinc	e losin	g all h	its na	tural

- A	partially	dentured	person							
				provid	led with	dentu	res to	WEST	in co	njunction
				mich el	he remai	nine n	stural	teeth		
				WILL U	ne reman	ttiring ve	OCCUPATION.	teerit.		

Full upper denture	-a denture usi	nally consisting	of 14	feeth for	tne
	upper jaw.				
W. H. Lemma Academia	- destroy mo	as the appeletion	of 14	teeth for	434

	lower jaw.
Partial upper denture	-a denture consisting of fewer than 14 teeth for the

Partial lower denture	-a denture consisting of fewer than 14 teeth for
	the lower jaw, to be worn in conjunction with
	natural teeth in the lower jaw.

turn teeth in the unner inw

Thus a totally dentured person has been provided with a full upper and lower denture. A partially dentured person still has some natural teeth but has also hene provided with some form of dentures. The form of dentures required can vary very greatly, sometimes involving a full denture for one jaw and a partial denture for the other, sometimes merely involving one tooth on a plate for one jaw.

8.0 THE FUNCTION OF NATURAL TEETH

Natural teeth have more than one role to play in life. They contribute to the physical appearance of each individual, they affect speech and are required for the purpose of eating efficiently.

As far as physical appearance is concerned the teeth in the upper jaw are likely to play a larger part than those in the lower jaw, for when a person talks or smiles it is generally the teeth in the upper jaw which are seen. Upper canies and incloors are the teeth which usually show but for people with very wide smiles unner remodars may also show. With respect to eating, different types of such have different function, for forginally the incisons were repossible for eating sunal pieces of food from larger quantities. The cauties enabled a grip to be taken on the food. The premotions and months were principalities and most empossible for enducing the food to a form that could be swallowed and digested. The moltar played a biggrant in this grinding role than the premotern state they had a much larger until the production of the district of the premotern state of the part of the premotern state of th

Allhough the two justs have the same number and type of grinding tech there are certain differences between the upper and lower jase. Firsh, the upper jaw is fixed and movement of it involves movement of the whole head, whereas the lower jaw in our fleed and can be moved genarish and downwards, hardwards and forwards, and from side to side. Secondly, although the two jaws have the same forwards, and from side to side. Secondly, although the two jaws have the properties of the same that the same that the same that same through the same that the same through for greenfast. Upper generalizes have a trough running along the middle which makes them more potential than the lower premotion. The permodes in the lower jaw are more rounded. This difference in structure can also be seen to the molantjay to the proper of the same through the same through the jaw are more rounded. This difference in structure can also be seen to the molant-

We have already seen in Section 6.7 that molars and promoders are the texther most affected by decay and loss. As associate tool the section there is therefore the problem of how to maintain the ability to chew. It is fairly certain that some manifanction occurs with any toody hose. It is also true to so by that some popule manage to live or exist without natural teeth or dentures. The relevant question is, therefore, at what level of toods hose would live be reasonable for a dental service to aim at treatment for partial tooth loss, either for the task of appearance or to help groot to endow evaluate a wide range of foods?

The survey provides some information as to the amount of total tooth loss and whether or not dental treatment bas here received to improve the situation. There are really only two ways of providing treatment for partial tooth loss. Bedigework or dentures can be fitted. We have already seen in cartier sections that the amount of hridgework carried out it very small indeed, in fact too small provided to the contract of the contr

At the preliminary stage of this inquiry we were concerned that the examination should not be conviolated. The information renoreded about destructs was therefore carried out independently of the recording for the natural teeth, with inhalight we would organize this operation not affelt directly in future. There is no stage of the conversal of the conversal of the conversal of the conversal future of the conversal of the conversal of the conversal of the conversal of the cardination in the lone was not supplemented by X-rays, we would record for each missing control that the conversal of the

8.1 Partial tooth loss and dentures

The survey data provided some information as to the level of partial tooth toos that was unfifted and whether the person had ever had any dentare. We were interested to see whether there was any particular level of teeth loss that resulted in the provision of dentures. In Table 8.1 we show the distribution of partial tooth loss in relation to whether there are any front* teeth missing and the number of had, then thinking. For each level of tooth loss the proportion of people with a denture is shown, Since each jaw can be provided with a denture the results are shown senantately for useer and lower lews.

TABLE 8.1

Replacement by dentures, for cortain patterns of partial tooth loss, shown for upper and lower jaws separately

Pattern of tooth loss	Adults of all ages with some natural teeth						
Pattern of tooth toss	Upp	or jaw	Lowe	rjaw			
Back* teeth missing No front* teeth missing 0-3 4-6 teeth 7-9 missing 10	No. 850 224 93 14	Proportion with upper denture 2.2% 13-45 57-05 71-4%	No. 1,065 289 182 32	Proportion with lower domure 2.2 % 14.2 % 53.3 % 65-6 %			
Total	1,181	9-5%	1,568	11-6%			
1-5 front 0-3 front 4-6 7-9 missing 10	107 88 93 16	59-8% 72-7-17 81-7-17 75-0-17	41 21 40 16	41-5% 57-1% 70-0% 75-0%			
Total	304	71-1%	118	58-5%			
6 front { 4-6 teeth missing 10	2 4 9 194	980%	1 4 3	Ξ			
Total	209	97-6%	8	-			
Total	1,694	31-4%	1,694	15-2%			

*Front teeth defined as incisors and canines (3-3). *Rack teeth defined as premolars and molars (4-8).

The table includes adults, of all ages, with some natural teath. Considering the loss of front totch, and ignoring back teath for the moment, 6-5%, of people with no upper front teath missing have an upper denture, 71 ½, of those with 1-62 upper front teath missing have an upper denture, 71 ½, of those with 1-62 upper front teath missing have an upper denture, and 97%, of those with the super front per front per front teath of the per front teath in the per front teath missing have, in fact a full dentance of the upper jew.

In the lower jaw 11-6% of people with no lower front tech missing have a lower denture, \$87.5% of those with 1-5 lower front tech missing have a denture. The situation of having a lower jaw elearance without also having an upper jaw elearance, rarely happens. A fairly high proportion of missing front tech in the lower jaw are replaced by a denture, but missing lower front tech are not so frequently replaced as missing upper front tech are not so frequently replaced as missing upper front tech.

What is the effect of missing hack setch? The level for replacement can be seen from examining those who have no front setch missing. Well over half of those who have 7-10 missing back teeth in one jav have a denture. The levels are not distinting for upper and lower jaws. The prevision of dentures for back teeth only is fairly uncommon where fewer than seven teeth are missing from one jaw.

The amount of tooth loss suffered increases very radically with age. We investigate next, therefore, whether the provision of dentures varied in the different age groups according to the pattern of loss, or whether different age groups had an entirely different level of provision of dentures for the same patterns of partial tooth loss.

The importance of mining front tech was similar for each age group, and the relatively greater importance of upper jaw front mining tech was apparent in each age group, as it had been with all ages together. The level of provision of deatures for back levels only we saugular for alge groups for each particular level deatures for the class only we saugular alge groups for each particular level class that the saugular saugular saugular saugular saugular saugular saugular hack tech in one jaw had a denture, whereas with fewer than T stehn mining from any one jaw very for had a denture. The only effect of aga, therefore, was that the classifier has saugular saugular saugular saugular saugular saugular saugular that the classifier has saugular s

We cannied next whether the provision of denture differed for given amounts of partial tool loss, exceeding to dental attainance pureran. A larger proportion of people had considerable tools loss among those who only attend when they have toughes with heir text. In this case, however, there was also a different level of provision for the particular patterns of tools loss. As in earlier decessions missing from text the ser of considerable importance in these were decessions missing from text the ser of considerable importance in the severe the decessions are served from text the server of tools had been decessions and the server that the server the provision of the server that the provision of dentures for missing lack text in the upper jaw was carried out more of dentures for missing lack text in the upper jaw was carried out more of the manager negatial attenders (see reflex with 7-10 km and 10 km and

The explanation for this probably lies in the fact that a much higher proportion of irregular attenders have a complete top jaw clearance, whereas very few of the regular attenders have that many of their top into teeth missing.

8.2 Potential denture wearers according to partial tooth loss at the time of the survey

In the previous section we investigated the replacement level for each jaw separately. We now examine the two jaws in combination. Among adults with some natural teeth 33-2½, had, or had previously had, dentures in conjunction with natural teeth. We have already sees from Table 8.1 that a very high proportion of frost tooth loss is replaced by a denture when the upper jaw is oncerned, of quite a high proportion is replaced when the lower jaw is concerned, of We cannot tell how many people in the survey have frought teeth missing for which the papt shave closed, hat we do know that an additional 95% of adults with some natural teeth have one or more missing front teeth with no replacement denture. This includes people with extensive tooth loss which involves hoth front and hank teeth. Thus the maximum level of need for dentures to replace front teeth not already actered for is 95% of those with some natural teeth.

We were also very interested in densure replacement for hack! tech only. Table 8.1 showed that given that all front teels were present, there was a marked increase in the provision of dentares when 7 or more hack teeth were missing from one jaw. There were 53 people in the survey who must this requirement for either or hoth jaws and who had dentares. This included 28 who had your and lower dentares, 17 who had upper dentares only and 8 who had fower dentares the survey of the surve

By comparing the pattern of tooth loss in these three groups, (back tooth loss replaced by upper and lower dentures, back tooth loss replaced by upper denture only, hack tooth loss replaced by lower denture only), we tried to establish the limiting factor which determined whether a denture was provided. For except who had keep the contract of the comparing the contract of the con

The factor which appeared to be of importance was whether there was a gas off three halc teet in a row or not. Of the 22 people who had hot hot paper and lower dentures, 34 had at least one gap of at least 3 teeth in both jaws. The other 4 people had direct people remodern missing the contract of the 3 horse left within the people with the people remodern missing which might well have left visible gaps, or a large number of such missing has contained for the 3 horse people was the people with the people of the 3 horse people was the people was been a people with the people was been a people with people was been a people with a people of a least 3 here himsing in the lower gaps, but two of these consisted of 3 molars missing, which is detector replacement terms is in fact only 2 teeth, more windom teeth a not generally replaced on a densure. Of the 8 who had a lower densure only all had a gap of a least 3 teeth in the lower jaws, and in our case this invented is not case to this roundwist with the people is and in our case this invented withdom

It would therefore appear that a gap of at least three hack teeth, excluding wisdom teeth, is a relevant level of tooth loss for replacement.

In the sample there were 25 people with some natural teeth, no dentures, all four teeth present hard 7 or more back teeth missing from either or oth off their jaws. That is the group that are comparable with the partially destirated persons in the property of the present teeth of their persons are to the present teeth of t

We examined all the people with no missing front teeth but 7 or more missing hack teeth in either or both jums, no establish the difference in missing back teeth in either or both jums, no establish the difference in the proportion of regular attenders who had fuse on compared with the proportion of irregular attenders. The proportion was 75-6% of the regular attenders had dentures but only 38-1% of those who only attend when they have trouble with their teeth.

We have been considering gross tooth loss, T or more back tech missing in one jaw. In addition to this there was a certain amount of replacement for hack tooth loss among those retaining all of their front teeth at a less severe level to tooth loss. There were 16 people who had dentured for hack tooth loss when fewer than 7 back teeth were missing in either jaw. Of these 10 had graps of at the property of the property of the property of the property of the prevention of the property of the property of the property of the prevention and another two had fairly numerous has tentered losses.

Thus even at lower levels of tooth loss it would appear that a gap of at least 3 hack teeth missing, all front teeth being present, is fairly crucial. How many people were there in the sample who had gaps of this extent hut who did not have dentures?

There were a further 107 people who had all their front teeth present, who did not have as many as 7 back teeth missing from either jaw, hut did have a gap of at least 3 hack teeth missing, excluding wisdom teeth, and did not have a denture. Thus, on this definition of requirement, a further 6-3% of adults with some natural teeth were potential denture weather.

It is extremely difficult to define the extrem of rooth low that nock replacment by a denizer, but if the two critical discussed above are considered as indication of possible potential need, (that is mining front tenth or a gap of at least 3 back tenth, excluding windom tenth) than an additional 18% of, of about with some natural tenth are potential denizer wearen. This level was hased on the pattern of missing tenth as at the time of the survey denial examination, iff these potential denizer wearers were to he fitted with denizers it would raise the reseast responsion of partially denized persons by over half.

Using the premise that a front tooth missing, or a gap of 3 hask text hogother, excluding wisdom text, is a level of tooth loss which needs replacement is, of course, only one method of assessing denture need for partial tooth loss. It has hene developed in the section since it followed naturally from an very crude of the section should be added to the section should be

One method of assessing denture need is by examining opposing teeth undis. There are considerable problems in doing this from the survey data because of the drift of teeth. Also the exact pattern of what had been replaced by dentures was not known. Such an analysis would be very detailed and it was felt that a preliminary look at the problem of teoth loss in terms of the premise above well be considered, after attentioner. Subsequently more detailed analysis might well be considered.

8.3 Partially dentured persons

The previous results lead us to a closer look at the people who actually have been provided with dentures to use in conjunction with their remaining natural teeth. One in three of those who still have some natural teeth have a combination

of natural teeth and false teeth. Within this group we have included all people who have ever had a denture, whether or not they currently wear it.

A partially dentured person may have an upper denture only, or a lower denture only or a denture for both jaws. Each denture can vary from one tooth on a plate to a full denture for one jaw, although the combination of a full denture for hoth jaws does not arise since such a person would be a totally dentured person. Table 8.2 shows the distribution of partially dentured persons

TABLE 8.2

according to the combinations of dentures for the upper and lower jaws. The distribution of different types of dentures among partially dentured persons

Denture pattern		Proportion of all partially dentured persons
Upper jaw Full denture Full denture Partial denture Partial denture Nome Partial denture Nome	jaw Lower jaw nature None nature Partial denture denture Partial denture denture None Partial denture	164 17-1 23-3 37-9 3-2 0-1 0-0
	Base	562

Although 94-8% of partially dentured persons have an upper denture of some kind, only 45.7% have a lower denture. For 33.5% of partially dentured persons the denture involved a full upper plate, for 16-4% of partially dentured persons this full upper plate was opposed by natural teeth only, for 17:1% of partially dentured persons the full upper denture was opposed by a partial lower denture. Only 0.1% of partially dentured persons had a full lower denture.

We examined the denture pattern by variables such as region, dental attendance pattern and age, to see whether the sorts of dentures varied among different groups of people.

Extensive loss of teeth is, of course, more frequent in the older age groups. Among partially dentured persons aged 55 or more, 45.8% had a full upper jaw clearance, whereas amone those aged 16-34 only 12-4% had a full upper jaw clearance. The comparable proportion for those aged 35-54 is 39-0%. It is impossible to tell from a survey, carried out at one point in time, whether this variation between age groups is symptomatic of age itself, or of living through a different period of dental history.

Full clearance of the upper jaw is not very evident among those partially dentured persons who attend for a regular check-up (14-8%), the majority of regular attenders (52:3%) have a partial upper denture but no lower denture. On the other hand, among those who only attend when they have trouble with their teeth 47-5% have an upper jaw clearance. We are, at this point, considering people of all ages, some of whom may have become irregular dental attenders as their number of natural teeth dwindled.

Regionally the differences with regard to upper jaw clearance are not very great. There is, however, a difference between the North and London and the South East, in whether the full upper jaw clearance is associated with a lower jaw denture or not. Proportionately twice as many people in the North have no lower denture as in London and the South East.

TABLE 8.3

The distribution of different types of dentures, for partially dentured persons by region

	ber stern?	ny region						
Denture pattern	Adults with some natural tooth who have (had) a decture.							
Upper law Lower law	The North	Wales and the South West	Midlands and East Anglia	London and the South East	England and Wales			
Pull desture —Note per Full desture Full desture —Partial desture Fartial desture Fartial desture Note —Partial desture Note —Partial desture Fartial desture Full desture	224 11-9 22-5 33-7 40 1-3	17-9 8-9 17-9 51-8 3-5 	197 194 222 342 43 —	10-5 21-0 25-6 36-6 6-3 —	16-4 17-1 23-3 37-9 5-2 0-1			
Base	151	.56	117	238	563			

TABLE 8.4

The distribution of different types of dentures for partially dentured persons by dental attendance pattern

person	s by dental are	endance patters		
Denture pattern Upper law Lower law	Adults with some natural teeth who have (had) a denture			
	Regular check-up	Occasional check-up	Only when has trouble	All
Full denture — Nane Full denture — Partial denture Partial denture — Partial denture Partial denture—None None — Partial denture Partial — Full denture	7.1 7.7 24.3 52.3 8.6 —	43 12-8 31-9 44-7 4-2 2-1 100-0	23-9 23-6 21-4 28-0 2-8 0-3	16-4 17-1 23-3 37-9 5-2 0-1 100-0
Base	197	47	318	562

TABLE 8.5 The distribution of different types of dentures for partially dentured persons, by age

Denture pattern	Adults with some natural teeth who have (had) a denture			
Upper jaw Lower jaw	16-34	35-54	55 or more	Ali ages
Fall denture —None Full denture —Partial denture Partial denture—Partial denture Partial denture—None None —Partial denture Partial denture—Full denture	62 62 62 21-0 60-4 5-4 0-8	18-0 19-0 22-5 34-3 6-2 —	22.2 23.6 26.4 25.0 2.1 0.7	164 17-1 23-3 37-9 5-2 0-1
Base	129	289	144	562

Wearing dentures in conjunction with natural teeth is an intermediate stage in dental health. It lies between having sufficient natural teeth and having none at all. The analysis of this stage of dental health is very difficult because the people who have dentures are in no way exhaustive of those who need them. As we have seen there are those in the community who have lost considerable numbers of teeth but do not have dentures. But the problem is further complicated by the fact that there is a stage of dental health beyond heing a partially dentured person, that is, heing a totally dentured person. From the large number of partially dentured persons who have a full upper jaw clearance, which is not the natural pattern of development of disease, one can deduce that others in like circumstances went to being totally dentured persons. In fact in the next section we shall see that half the people who have become edentulous within the last twenty years, did so without ever having had partial dentures. Many of such people had more than twenty teeth extracted on the last occasion. Some of these people must surely have been potential partially dentured persons. Looking at existing partially dentured persons and those who have as yet no dentures is not therefore going to provide a complete explanation. This problem can only he thoroughly investigated by conducting a longitudinal study, thus recording the changing state of dental health as it occurs.

9.0 THE CIRCUMSTANCES OF TOTAL TOOTH LOSS

As we have already commented, once teeth have heen extracted there is no way frowing, from a subsequent examination of the mouth, why they were extracted. During the interview we therefore asked people who had lost all their natural teeth if they could tell us some of the details about the circumstances in which they lost them.

Such information was, of course, dependent on the memory of the informant, and on the detail he or she had here given at the time. To make the task less burdensome for those who had all their natural seth extracted many years ago we confined the more detailed questions to people who had lost the last of the natural teeth within the last twenty years, that is during the life time of the National Istandia of the confirmation of the confirmation

We examine first the number of teeth taken out at the final extraction and show this in relation to whether the person had any dentures prior to total tooth loss. The number of teeth extracted have been grouped into three large ranges, up to 11, 12 to 20 and 21 or more.

Table 21, shows that among people who became detentions within the last tenty years, half had no destures before long ingl their ansurant leath. As would be expected the number of tent entracted from those who did not previously be expected to the properties of th

to gum disease a large proportion of people who keep these teeth manage to do so despite the gum disease. It would seem likely that some of the people who became edentulous after extensive extractions might instead have become partially dentured persons rather than edentulous.

TABLE 9.1

The number of teeth extracted on the last occusion according to whether the

	person was partiting data	med at the time of not			
Number of teeth extracted on the last occasion	Adults, in England and Wales, who had the last of their natural teeth extracted during the last twenty years				
	Partially dentured at the time	Not partially dentured at the time	All		
1-11 12-20 21 or more	52.7 33.3 14.0 100-0	12-0 34-0 54-0 100-0	32.2 33.6 34.2 100.0		
Base	264 (49-6%)	268 (50-4%)	532 (100-0%)		

We have been concerned throughout the report to find explanations for the large regional variation in the level of total tooth loss. We therefore examine the number of teeth extracted on the last occasion, in the different regions. Again the results are presented separately for those who had partial dentures prior to full extraction and those who did not.

In England and Wales as a whole, 48-9% of people, who had the last of their natural teeth extracted within the last twenty years, had a partial denture. Regionally the comparable proportions were 44-0% in the North, 54-5% in Wales and the South West, 50-4%; in the Midlands and Esta Anglia and 51-0% in London and the South East. Thus the proportion of partially dentured persons was lowest in the North.

Table 9.2 shows, as did the figures for England and Wales as a whole, that the number of teeth extracted on the last occasion varies greatly according to whether or not the person previously had a denture.

As far as partially dentured persons were concerned the number of teeth extracted tended to be fewer in London and the South East than elsewhere. As far as people who had not had dentures were concerned considerably more large scale extractions were carried out in the North than elsewhere, 62-0% having more than twenty teeth extracted.

Since a greater proportion of people in London and the South East had had a denuture prior to loning all their teeth, and since a greater proportion of people in the North had not, the regional variation in the number of teeth extracted was amplified when all the adults were considered together. Thus 41 0% of people me to the contract of the state of the

It would therefore seem that the path to becoming edentulous was somewhat more direct in the North than in London and the South East,

TABLE 9.2

The number of teeth extracted on the last occasion by region and whether

	Adults who had the last of their natural teeth extracted during the last twenty years					
Number of teeth extracted on the last occasion	The North	Wales and the South West	Midlands and East Anglia	London and the South East	England and Wales	
		Adults who previously had dentures				
1-11 12-20 21 or more	47.2 37.1 15.7	57-4 32-0 10-6	48-2 32-8 19-0 100-0	595 30-0 10-1 100-0	52-7 33-3 14-0 100-0	
Base	89	47	58	70	264	
		Adults who previously did not have dentures				
1-11 12-20 21 or more	8-3 29-7 62-0	10-5 44-7 44-8 100-0	14-8 33-4 51-8	163 353 484 1000	12-0 34-0 54-0 100-0	
Base	108	38	54	68	268	
-	Ali					
1-11 12-20 21 or more	26-0 33-0 41-0	36-5 37-6 25-9 100-0	32-2 33-0 34-8 100-0	38.4 32.6 29-0 100-0	32.2 33.6 34.2 100.0	
Base	197	85	112	138	532	

10.0 DENTURE WEARERS

We have already discussed the type of partial tooth loss that was replaced by dentures. We not turn to the question of whether the desentures are worn on, and the sorts of problems people have with them. Any such discussion is more straightforward for totally dentured persons, inner the type of denture they have is known by definition. Whereas partially destured persons are very varied in the kinds of denture they have it addition partially destured persons have the problem of wearing fishe teets in conjunction with their remaining natural teets, heccurs of these differences we examine the worp opportunity and the problem of the differences we examine the worp opportunity and the problem of the difference we examine the worp opportunity and the problem of the difference we examine the worp opportunity and the problem of the difference we examine the worp opportunity and the problems of the difference we examine the worp opportunity and the problems of the difference we examine the worp opportunity and the problems of the difference of the difference we examine the work of the difference of the difference we examine the work opportunities.

10.1 The wearing of dentures by totally dentured persons

In the sample there were 1,078 people with no natural teeth at all. Of these 97-4%, had a full set of dentures. Those who had no dentures included 15 people who had never had any dentures, and 12 who had had some in the past but no longer had any. Among those who had never had dentures 2 were unable to

wear any because of physical disabilities, 4 were awaiting their first full denutes behaving recently lost the last of their natural setts, 9 people could manage very well without dentures and did not want to bother with them. Among those who no longer bed any dentures 2 people had goven up because the dentures hurt so no longer bed any dentures 2.0 people had goven up because the dentures hurt so had been as the set bad lost them or broken them and had not had them replaced. May the set bad lost them or broken them and had not had them replaced. May the set bad lost them or broken them and had not had them replaced.

There remained 1,051 people with full dentures. Nevertheless, not all of those people who had dentures necessarily wore them. This occurred in two ways, some people never wore them at all, others wore them but only some of the time.

There were 22 people who never wear both the upper and lower denture, 2 people never wear the upper denture and 50 people never wear the lower denture. Thus 74 people with a full set of dentures never wear all or part of them.

In addition, 92 people said that they do not war all of the set or part of the set for the whole of the day time. This was made up of 22 people who wear both upper and lower dentures part of the day only, 2 who wear the upper denture part of the day only, and Is who wear the lower denture part of the day only, and the day only, and Is who was the lower denture part of the day only, the day only the day of the day of the day only the day of the day only. If the day of t

TABLE 10.1 The wearing of dentures by adults with no natural teeth

The wearing of dentures by adults with no natural teeth					
Whether wears dentures	Adults with no natural teeth				
WORKER WOLLS GEHELITES	Number	Proportion of those with no natural tooth	Proportion of those who have a full set of dentures		
Nover had dentates Had dentates but no longer has them Nover wears both upper and lower dentate Nover was both upper and lower dentate Nover was upper dentate but wears lower Nover was lower dentate but was upper Wortstam Nover was lower dentate part of day only Wortstam W	15 27 22 2 74 50 72 2 18 92 885 1078	14 2.5 2.5 2.0 0.2 6.8 4.6 6.7 0.2 1.7 82.1 100.0	7.1 0.2 4.8 6.8 0.2 1.7 84.2 100.0		

Leaving out those who have no dentures and considering only the people who have dentures, the proportion who wear them all day is raised to 84.2%. The results show that the lower denture causes considerably more trouble than the upper denture.

We examined how the proportion of people who wore their full set of destures all day varied with other factors. There was only a slight regional variation, and that was due to the fact that there are more young totally destured persons in the North, and there was a slight tendency for the proportion of poople warring their destures all day to be higher among the young. The only strashle variation with age, however, was among the T5-years old and over. Here the vield wast-ingelentures all day was stomewhat have than averaged than over the averaged to the proposition of the prop

Table 10.2 shows the pattern of denture wearing in relation to household social class. The proportion wearing their full set of dentures all day ranged from 891% among the group of social classes I, II and III non-manual, to 778% among social classes I and V. Social class IV and V also had higher proportion of people without any dentures, a higher proportion who never wore them, and a higher proportion who were them only part of the day time.

TABLE 10.2

The wearing of dentures by household social class, for adults with no vatural teeth.

Whether wears dentures	Adults with no natural teeth				
		Household s	ocial class		
Has no denture Never wears all or part of denture Wears denture part of the day only Wears denture all day	I, II and III non-manual	III manual	IV and V	All*	
	6-8 3-9	2.3 6-1	% 19 9-6	2.5 6-8	
	6-2 89-1	9-3 82-1	8-7 77-8	8-6 82-1	
	100-0	100-0	100-0	100-0	
Base	257	364	311	1078	

^{*}This total includes the housewife, student, unemployed and unclassifiable categories, which are not included elsewhere in the table.

We were interested to know the manen helinded why people either never worter their dentures, or wort them only part of the day time. As equal proportion, approximately a third, of people among those who never wore their dentures and those who wore them only part of the time, and that the dentures have them only part of the time, and that the dentures have them only part of the time, and that the contract said that such because the denture was low worst them only part of the time said the reason was because the denture was lowe. Other transons was present of the time with denture in. The solution to those problems accorded to be not to wear the denture for that part of life for which they were found to be disapproached.

Of the 92 people who only wear their dentures for a limited time, 64 wear them for the sake of appearance, 12 wear them for cating, 12 take them out for cating, 8 wear them when their mouth is not sore, and the other 6 wear them sororadically. We taked all the totally destured persons whether they were satisfied with their destures. If they did not claim to be very satisfied with them we asked whether they were used to destire about the problem. Among those who were their destinated and the satisfied with them, 10 c/6, said they were not very satisfied but did not plan to satisfied with them, 10 c/6, said they were not very satisfied but did not plan to the said they were not every satisfied but did not plan to part of the day time only, 48 v/6, were very satisfied with them, 25 v/6, did not intend to a dential Among them but 22 v/64. Thousit thew would

Among those who never wear part or all of their dentures 31·1% were very strifted with them, 13·5% thought they might see a dentist ahout them hut 55·4% were prepared to continue as they were.

Quite a proportion of people who do not wear their dentures all day, do not feel dissatisfied with the dentures themselves, and quite a high proportion do not intend to do anything about it, even if they are not completely satisfied with them.

During the interview, people who wore their dentures at least part of the daytime, were asked whether they had any difficulties with their dentures in a selection of every day instantions, such as when they were laughing, yawning, atking, chowing must or biling into a raw apple. Table 10.3 showshep-proportion of people who had some difficulty with these situations. The results are shown them for part of the days.

TABLE 10.3

The proportion of totally dentured persons who wear their dentures at lenst part of the daytime, who have difficulties with their dentures in selected everyday situations.

Totally dentured persons who wear their dentures at least part of the day time	Proportion who have difficulty with their dentures when:				
part or one only one	Laughing	Yawning	Talking	Chewing meat	Biting into a raw apple
Wears dentures all day Wears dentures part of day All	60% 18-4% 7-2%	74% 162% 82%	62% 173% 75%	14-6% 39-0% 16-9%	45-8 % 70-6 % 48-2 %

Laughing, yawning and talking caused difficulties about equally among those who wear their denutures at least some of the integ. 7-89, of totally desurted persons who wear their denutures had some difficulty. A higher proportion of those who wear their denutures had some difficulty with these throse who wear their denutures had some difficulty with them three situations than the proportion among people who wear their denutures all days. The major cause of the difficulty was, for all three situations, that the denuture save to be observed to be caused the difficulty with them of the denuture was the difficulty and the denuture made them him.

The proportion of people having some difficulty rose appreciably when chewing mean was considered, 14-6% of those who wear their teeth all day have some difficulty with chewing meat; 39-0% of those who wear their dentures only part of the time have difficulty with chewing meat. The two main reasons given for these difficulties were that the dentures were too loose to chew meat, or that the person could not hits with dentures.

Biting into a raw apple was difficult for nearly half of the people who wear their dentures all day, and for nearly three quarters of those who wear their dentures only part of the day. Again the main reasons were that people felt that their teeth were too loose to be able to bite into an apple without displacing their teeth, and that wearing dentures does not enable a person to bite.

Since dentures are removable, false teeth can never be as rigidly fixed in the mouth as natural teeth are. There is always some degree of looseness. When we asked people with dentures whether they felt their dentures were loose, we were asking about whether they felt that the dentures were looser than they would have liked.

Full denture wearers were asked whether they felt that either their upper denture or lower denture was loose. They were also asked whether either the upper or lower denture had hurt their mouth at all during the last six months.

TABLE 10.4

The proportion of totally dentured persons who wear their dentures at least part of the day time who have difficulty with dentures feeling too loose, or larring

Totally dentured persons who wear their dentures at least part of the day time		Preportier dentures		Propertion whose dentures have hurt mouth in the last 6 months		
		Upper jaw	Lower jaw	Upper jaw	Lower jaw	
	Wears dentures all day Wears dentures part of day All	13-2% 18-4% 13-7%	31-3 % 50-0 % 33-0 %	9-8 % 16-3 % 10-4 %	34-2% 43-4% 35-1%	

Again we see that it is the lower jaw denture which causes the most trouble. A third of full denture wearers felt that their lower denture was loose. Just as a third said that their lower denture had hurt their mouth during the last six months. Those who only wear their deatures part of the day time were somewhat worse off in these respects than those who wear their dentures all day.

10.2 The wearing of dentures by partially dentured persons

The potential number of totally dentured persons at any given moment in time depends on the number of people with no natural teeth. The potential number of partially dentured persons, at any given moment in time, is much more difficult to assess, as has already been discussed in section 8.

It is not possible, therefore, to say categorically how many people with natural teeth and no dentures in fact need dentures. Consequently we confine ourselves to examining those people with some natural teeth who have a store time had a denture. We establish first whether such people wear their dentures.

There were 633 people among those who were interviewed and had some natural teach, who suid that they had had dentures at some time. There were 26 people who had both upper and lower dentures both never now wear either, 5 who had both supers were the hupper denture. We show had both to never were the hupper denture, 43 who had hobb to never wear the people enture, 43 who had hobb to never wear the lower denture. There were 40 people who had an upper denture only but never we were it, it and 11 who had nower denture only but never were it. Thus 20-5%; of the people with some natural teeth who have had a denture never now wear all or text of it.

In addition, 46 people only wear all or part of their denture for part of the dayme, thus 27-8% of those who have had a denture to help complement their natural teeth, do not in fact wear their denture all day.

TABLE 10.5

Whether wears dentures	Adults with who have	some natural teeth
Has had upper and lower denture never wears either Has bad upper and lower denture never wears upper denture but wears lower denture. Has had upper and lower denture never wears lower denture but wears upper denture. Has bad upper denture only and never wears it Has bad upper denture only and never wears it Wears whole of dentures but only part of the day Wears whole of dentures but only part of the day Wears whole of dentures all day.	No. 26 5 48 40 11 46 457 633	4-1 0-8 7-6 6-3 1-7 7-3 72-2 100-0

If we compare the results in Table 10.5 with those in Table 10.1 we shall see that of those who have destures the partially destured person have a lover rate of acceptance, as measured by wearing destures real day. The proportion who wear their dentates for only part of the day does not differ ever much, 1874, of those who have a full set of dentates and 73% of those who have dentates in conjunction with antatul textle. The big difference cones in the proportion who never warr all or part of their dentates, 7-1% of those who have a full set of dentates in conjunction with antatul textle. The big difference cones in the proportion who never warr all or part of their dentates, 7-1% of those who have a full set of dentates in conjunction with natural textle.

We have already commented on the difficulty of assessing how many of the person with natural text and an obstances in fact need destructs. On a basic problem, the state of the person with missing front extent or a pap of three back of the person of the person with missing front extent or a pap of three back of the person o

As with totally dentured persons there was little regional variation among partially dentured persons in the proportion of people who wore their dentures. There was very little variation with age and less than ten per cent variation with household social class. Table 10.6 gives the results.

The main reason for partially dentured persons not wearing their dentures all day was because they burt, other reasons given were that it was difficult to eat with them, the food went under the plate and that food did not taste the same. Some people mentioned the difficulty of wear and tear on the adjacent supporting texth. The main reason for wearing them some of the time was for appearance.

Among those who never wear their dentures, again the reason that they hurt occurred most often. The other major reason given was the dentures did not fit properly, either in the spaces, or were too loose, or too tight. Some partially dentured persons found that wearing the dentures made them feel sick. Similar comments were made about the difficulties with food as were made by those who wear their dentures some of the time only.

TABLE 10.6 The wearing of dentures by partially dentured persons,

	for bouse	bold social class				
Whether wears partial	Adults with some natural teeth who have ever had dentures Household Social Class					
dentures						
	I, II and III non-manual	III manual	IV and V	All*		
Never wears	18-8	213	24.4	263		
Wears part of the day	5-0	6-9	7-8	7.3		
Wears all day	76-2	71-6	67-8	72-2		
	100-0	100-0	100-0	100-0		
Base	240	247	115	633		

^{*}This total includes the housewife, student, unemployed and unclassifiable categories, which are not included elsewhere in the table.

Among those who wear their dentires all day, 79-2%, were very satisfied with them, 8.5% and 14-6%, watch they do plan to send the other than the state it, and 14-6%, and they do plan to send the other than the state it, and 14-6%, and they were not was stated to the daytime only, 6-44%, said they were very satisfied with their dentires part of the daytime only, 6-44%, said they were very satisfied with their dentires 3.23 6%, said they were not satisfied but did not propose to do anything about it their dentires 4.54%, said of they were yas satisfied with them, 15-4%, said they they they satisfied with them, 15-4%, said they were not satisfied with them, 15-4% of not than they would do anything they were not satisfied with them, 15-4% of not than they would do anything they were not satisfied with them, 15-4% of not than they would do anything they were not satisfied with them, 15-4% of not than they would do anything they were not satisfied with them, 15-4% of not than they would do anything the satisfied with them, 15-4% of not than they would do anything the satisfied with them, 15-4% of not than they would do anything the satisfied with them, 15-4% of not than they would do anything the satisfied with them, 15-4% of not than they would do anything the satisfied with them, 15-4% of not than they would do anything the satisfied with them, 15-4% of not than they would do anything the satisfied with them, 15-4% of not than they would do anything the satisfied with them, 15-4% of not than they would do anything the satisfied with them, 15-4% of not than they would do anything the satisfied with them, 15-4% of not than they have a satisfied with them, 15-4% of not than they would do anything the satisfied with them, 15-4% of not than they have the satisfied with them, 15-4% of not than they were not satisfied with them, 15-4% of not than they have the satisfied with them, 15-4% of not than they have the satisfied with them, 15-4% of not than they have the satisfied with them, 15-4% of not than they have the satis

During the interview partially dentured persons who wore their dentures at least part of the time, were asked whether they had any difficulty with health they were laughing, yawning, takling, chewing meat or biting into a raw apple. The results are shown separately for those who wear them only part of the day.

TABLE 10.7

The proportion of partially dentared persons who wear their dentares at least part of the day who have difficulties with them in selected everyday situations

Partially dentured persons who wear their dentures at least part of the daytime	Proportion who have difficulty with their dentures when:				
	Laughing	Yawning	Talking	Chewing meat	Biting into a raw apple
Wears dentures all day Wears dentures part of day All	65% 43% 64%	44% 00% 40%	7-8 % 15-2 % 8-2 %	11-8% 50-0% 15-2%	26-2% 36-9% 27-2%

We compare not only the difficulties found in these situations hat also whether partially destined persons to reliably destured persons to reliably destured persons. The above the reliable of the destination of poople having difficulty in these situations among those who only wear their destines part of the day time. For partially destured persons the position was somewhat diffeue. Leaphing and young were not agree agree to succeed the day time. To partially destured persons the position was somewhat diffeuer. Leaphing and young were not reliable to the succeeding the destination of the day time. The partially destured person of the time although the succeeding the partial person of the time although the succeeding the partial person of the time although the partial person of the time although the partial person of the time although the partial person of the partial p

For partially dentured persons who wear their dentures all the time:

Were experienced about equally by the comparable group of totally dentured
persons except that hiting into a raw apple did not prove anywhere near so
difficult for partially dentured persons.

Thus the two points of particular interest are that those partially destured persons who wear their destures part hun ort all of the day have particular difficulty with callsing and with chewing meat. This suggests that there is more incompatibility between natural text and false texts when dentures are loos or ill fitting and that talking and chewing meat are two situations in which such difficulties are reacted. Secondly hings into a raw apple is made the sufficient difficulties are reacted. Secondly hings to a raw apple is made the difficulties to the fact that the former usually destured person. This is probably due to the fact that the former usually made to the fact that the former of hitting.

Partially dentured persons were asked whether their dentures had hurt in the last six months, and whether their dentures were loose or not. These questions were asked separately for upper and lower jaws, for many partially dentured persons had no plate for the lower jaw.

TABLE 10.8

The proportion of partially dentured persons who wear their dentures part of the day, who have difficulty with dentures harring

Whether destures	Partially	Partially dentured persons who was; their dentures at least part of the day time						
4 menths	Wears there off day		Weers them year of day		All			
	Upper jaw	Lower paw	Upper jaw	Lover jaw	Upper jaw	Lower Jaw		
Have burt Have not burt No plate	13.4 [%] 14-3 82.5 85-7 3-7 100.0	83 ⁷ 23-2 29 1 77-6 42-6 100-9 100-9	17-4 18-6 76 1 82-4 65 100 0	10-9 ² 21.7 39-1 70-3 500 100-0	16-1 14-7 R1-9 83-3 40 100-0	8-5 22-0 30-1 77-6 61-4 100-0		
Base	457	457	46	46	503	503		

Tables 10.8 and 10.9 show that in terms of whether the dentures have hurt recently or whether they are boose, done sho do not wear their dentures all day were not having very much more difficulty than those who over them all day, it feet in terms of the loconess of fower them, all days, it is one of the consensus fower them of the those who were them. This is because for the non-wearter sever better off than those who were them. This is because for the non-wearter flowerses is not the problem. If the dentures are not worn then the remaining need move, rending to close the pags. In such circumstances the dentures will not fit into the gaps and the person will not be able to wear them.

On the whole, lower dentures hurt more than upper dentures. But lower dentures, even among those who wear them, were not felt to he loose any more

often than upper dentures. This reflects the fact that lower dentures for partially dentured persons very rarely consist of a full lower plate and consequently there are some natural teeth left which belo to keep the lower denture in place.

TABLE 10.9

The proportion of partially dentured persons who wear their dentures at least part of the day, who have difficulty with dentures feeling too loose

Whether dentures	Partial	by destrated per	tost Apo Acis.	their Contures a	t best pert of t	ne day	
are loose	Wears then all day		Wears them pert of day		All		
	Upper jaw	Lower jew	Upper jaw	LONE JAW	Upper jaw	Lower jaw	
Destros are locos Destros are not locos No plate	23 0 23-5 73-3 76-2 3-7 100-0	% 84 22:3 29:0 77:7 62:6 100:0	7/ 21-7 23-2 71-6 76-6 6.5 100-0	20 43 474 957 500 1000	73 1 762 40 1000	7-5 19- 31-1 39- 61-4 100-	
Base	457	457	46	46	503	503	

We examined the type of denture, in terms of which jaws were involved and whether the denture replaced all teeth in that jaw or only some, and also by whether or not the dentures were worn. The results were very interesting and are shown in Table 10.10.

TABLE 10.10

The wearing of dentures by partially dentured persons in relation to the type of denture

		Parti	olly destured p	moni	
Whether wears destaces	Full upper so lower	Partol upper no lover	Full upper pertal lower	Partial upper partial lower	No upper partial lower
Has upper, never wears it Has lower, never wees it Never wears both upper and lower. Has both never wears supper Has both never wears lower Wees whele of decreases, but not sit day. Weets whole of desisters sit day.	69 94.5	7.6 76.3 100.0	56 648	% — 15 3 3 5 13 9 9 0 56 3 100 0	36-7
Base	100	260	106	144	30

Whether dentures are worn by partially dentured persons is obviously very much affected by their type. The survey results show very clearly that upper dentures are more acceptable to the person than lower dentures, and that a full denture in the upper jaw is more acceptable than a partial denture for that iaw.

Among those people whose denture consisted of a full upper denture only, 49.5% and they ware the dentare all day. Of those who had a partial upper denture only, 76.3% and if was worn all day. For those who had a partial upper denture only, 76.3% as all thinger denture, 68.5% over their edutures all day, but denture as well as a full upper denture, 68.5% over them all day, but denture, 58.3% were them all day. Again the biggest contribution to never warring them came from the lower denture (52.5%). For those people who had

no upper denture but a partial lower denture 53.3% wore them all day. Among this group 36.7% never wear the partial lower denture.

There is obviously a difference between what is deemed dentally necessary in the field of dentures in conjunction with natural teeth and what is found to be personally necessary and acceptable to those for whom the dentures are provided.

PART V-MISCELLANEOUS

11.0 OTHER FACTORS INFLUENCING DENTAL HEALTH TODAY

11.1 Treatment under the School Dental Service

In section 3, which death with background information for the survey, we discussed briefly the structure and policies of the School Death Service. This service has considerable potential for influencing dental antitudes and betwient. In many cases it may provide the facility of the structure of

We were interested to see how many people in the sample had even over examined by a school dentist, and how many had subsequently received treatment. The proportions for England and Wales are shown in Table 11.1 which includes adults of all ages, with and without natural teeth.

TABLE 11.1
Proportion of all ages, with or without natural teeth, treated through the School Dental Service

Whether treated by the school dentist	Adults of all ages, with or without natural teeth, in England and Wales
Never examined Examined but not treated Examined and treated	32-2 25-5 42-3
Base	2,847

Thus of 74%, of the total interviewed sample had at some time been examined by a chool desirate, 22%, had not. The opportful who had forewise travellar, however, include people of all ages and therefore span was 42.3%. These results, however, include people of all ages and therefore span the whole petide of the fetched Danisl Section 14 to 15 to

In Table 11.2 the proportion receiving examination or treatment is shown for those aged 16-34; again the table refers to people with and without natural teeth. The figures are shown regionally as well as for England and Wales.

TABLE 11.2
Proportion of adults aged 16-34, with or without natural teeth,

Whether treated by the School Dentist	Adults aged 16-34; with or without natural teeth					
Deliver Deliver	The North	Wales and the South West	Midlands and East Anglia	London and the South East	England and Wales	
Never examined Examined but not	10-0	19-0	% 14-6	164	14.5	
treated Examined and treated	23.9 66-1 100-0	25-6 55-4 100-0	27-4 58-0 100-0	23-5 60-1 100-0	24-8 60-7 100-0	
Base	259	121	205	311	896	

For England and Wales as a whole, a total of 855% of those in the age group 16-34 had been examined by a school dentits, 145%, had not. The proportion who had received treatment was 607%. The results were fairly similar in each of the regions, the North achieving a somewhat higher level of examination and treatment.

Thus over half of the people in the age group 16-34 had received some treatment through the School Denzal Service. Using the usurye extansition data we can compare, for this age group, the present state of deatal health of those who were treated under the school dental system and those who were not. Although much dental treatment will have been carried out subsequent to leaving school any major differences, specially if there is any variation in extraing school and the special some state of the special special some state of the special special some state of the special specia

During the last twenty years there have been, in addition to the provision of the School Dettal Service, the general dental services of the National Health Service, and also private services if desired. Initially, to show the interrelationship of the School Dental Service with non-school sources we show in Table 11.3 which will be the service of the services of

TABLE 11.3
Relationship between childhood attendance in the General Dental Service and treatment through the School Dental Service

	Adults aged 16-34, with some regurs tooth						
Whether treated by the school desting	Childhood	pettern of depts	od strandance, in the General Dontal				
- Anna deliga	Regular shock-up	Ocemioent check-up	Oely when have troobie with teeth	Not st all	Total		
Never examined Exercised but not treated Examined and treated	2257 36.4 40.9	17-1 30-0 32-9 30-0	12 6 29 2 58 2 100 0	10 4 14 3 73 3 900 0	16-7 25-4 59-9		
Bine	205	71	225	312	813		

Among adults who, during plair dislibened, attended a most-hool dentite for a regard robe way. 80% the mercend some transment through the school contained robe way. 80% the mercend some transment through the school operation of the contained above the p. 25% had some transment through the school option. For those who, in childhood, went to a non-school densits for an sortended with their tests, \$2.5%, show recommend there of the control with their tests, \$2.5%, show recommend the school service. Among those who did so the school service, \$1.5%, show the school service, \$1.5%, show the school service. \$1.5%, show to cannical other tests and the school service, \$1.5%, show to cannical other tests and the school service during the school service during the school service during the school service during the school service and the school service during the school serv

The overall level of treatment through the School Dental Service for those aged 16-34 with some natural teeth was 59-9%. In Table 11.4 we show the average number of teeth found to he in the different tooth conditions, in relation to whether any treatment was received through the School Dental Service.

From the table it can be seen that the people who were examined by the shool destills than to tratead, have on acceptage two more tends that are sound and untrastined. This suggests that the school service was on the whole, scheduled for treatment power with more diseaser. In a larger similar stars, with regard to for treatment power with more diseaser, but a larger similar stars, with regard to disease, as those who were treated. The main difference here is that on sverage strates and fewer minimal. Here the stars of the star of the stars of the service and fewer minimal. Service have on average 21 such ministage, those who were not treated by the school desirable work on average of 31 such ministage, those who

TABLE 11.4

The condition of the teeth in relation to whether treatment was received through the School Denial Service, for adults aged 16-34 with some natural teeth

١		Aver	nga xurnber soo	of teeth in a	ach confile	on for adults land and Wi	nged 16-34 des	with
	Whether treated by the achord derivat	Sound and untreated	Crowned or besigns	Filled, otherwise sound	Filled and decayed	Decayed faci previously treated but personable	Not restorable	Mining
	Never examined Examined but not treated Examined and treated	14-9 16-4 14-2	0-1 0-1	9-7 8-3 8-1	0 E 0-6 0 7	1-0 1-3 1-2	02 00 04	5-3 5-1 7-3
	All	149	9-1	E4	0.7	1-2	0.3	64

Table 11.5 gives the comparable results on a regional basis, for we were interested to see whether this difference in the average number of missing teeth for people treated by the school dentist existed throughout the country.

This regional examination immediately draws attention again to the difference hetween the regions of the number of sound and untreated teeth and the number of filled (otherwise sound) teeth (see section 6.4). However the average

number of teeth missing, regardless of the School Dental Service, is between 6 and 7 in all regions. Taking the School Dental Service into account there is a consistent difference in each region, of an average of two more teeth missing among those who received treatment from the school dentist than among those who did not

TABLE 11.5

The condition of the teeth in relation to whether treatment was received through the School Dental Service, by region, for adults aged 16-34, with some natural teeth

Whether trusted by the school dentist	Aver	nge number	of teeth in	rech conditi ne setural t	on for adult ceth	s aged 16-34	with		
	Sound and untreated	Crowned or bridged	Filled, otherwise sound	Filled and decayed	Decayed not previously treated but restorable	Not restorable	Missing		
	The North								
Never examined Examined but not treated Examined and treated	17-1 17-0 15-4	- 91	76 6-9 6-5	1-2 1-0 0-9	10 13 14	9-4 9-3	5-1 3-4 7-0		
All	15-9	0-1	6-7	09	16	0-3	6-5		
			Wider	and the Sou	th West				
Never examined Examined but not treated Examined and treated	13 4 16-5 13-8	01 01	9-7 7-9 7-5	0-6 0-7 0-7	16 15 14	0.5 0.3	5-9 5-0 7-8		
AE	14-5	0-1	8-0	0-7	15	0-5	67		
			Midse	ds and East	Anglia				
Never exactined Exemined but not treated Exemined and treated	15-9 16-3 13-0	01	2-5 6-8	0 6 0 5 0 6	1-1 1-0 1-0	0-1 0-3 0-6	5-5 5-6 2-7		
All	15-5	-	7:3	0.6	1.3	0.5	64		
			London	and the Sou	sh East				
Never examined Examined but not treated Examined and treated	161 15-7 13-0	01	11-5 10-2 10-3	0-6 0-5 0-6	0.7 0.8 0.6	02 03	5-0 4-5 7-1		
All	13-8	01	10-5	0.6	07	02	61		

We have seen from Table 11.3 that some people obtained treatment only from the School Dental Service during their childhood, while some obtained treatment from outside the school system, others received treatment under both systems. We therefore examine, from Table 11.6 the average number of teeth in each condition according to the combinations of sources of detail treatment during childhood.

In each non-school dental attendance group the average number of missing teeth is higher for people who were also treated by a school dentist. Among the regular childhood attenders the average number of missing teeth is 4–5 for those who were not treated by the school dentist, and 3–6 for those who were.

Similarly, for those who had attended a non-school dentist when baving trouble with their teeth, here the average number missing was 5-7 for those who had not been treated by the school dentist and 7-8 for those who had.

Among those people whose treatment, if any, was obtained through the school dentist, there were on average 7 missing teeth; among those who had not had treatment either through the school dentist or elsewhere, there were on average 4-5 missing teeth.

TABLE 11.6

The condition of the teeth in relation to whether treatment was received through the School Dental Service and/or through the General Dental Services as a child, for adults

	ageu	16-34 WIE	a some mi	DENI SECEN						
	Average number of seeds in each condition for adults aged 16-34 with some natural seeds									
Whether treated by the school deeffst	Sound and untreased	Crowned or bedged	Filled, otherwise Sound	Filled and decayed	Decayed not previously trested but restorable	Not restorable	Missing			
	West to dentise, outside school service, for regular check-up- during childhood									
Nover examined Exempled but not treated Examined and treated	13-8 12-4 13-9	0-1 0-1	12-0 10-0 10-0	1-0 0-8 0-6	0-5 0-5 0-6	- 92	46 43 64			
All	144	0-1	10-6	0-8	0.6	0-1	5-2			
	Wes	s to desite	outside soli	iool service, iring childh	when bad a ood	rouble with t	zeth			
Never examined Examined but not treated Examined and treated	13-5 16-1 14-2	0-i 0 i	9.2 7.6 6.9	0-7 0-5 0-4	1-5 1-7 1-6	0-2 0-4 0-7	69 56 79			
All	146	0-1	7-4	0.5	17	9-6	7-1			
	Did not go to dentat outside school service during childbood									
Never examined Examined but not treated Examined and treated	18-2 18-7 14-7	0-1 0-1	8-2 3-4 7-6	0.4 0.5 0.7	0-8 3-0 1-2	0-1 0-5 0-3	5-2 4-9 7-4			
AIL	15-6	-	74	96	1.4	9-4	69			

Thus, even allowing for alternative sources of dental treatment during childhood, there was still a consistently higher average number of teeth missing among people who had received treatment through the School Dental Service.

These results are consistent with the policies of the School Dental Service as outland in Section 3. In the face of chronic understiffing and an overwhelming number of children to be treated, their major concern has been 'relief of pain and prevention of sepsis'. For many children this has meant extraction rather than conservation. One situation in which this policy has been directed is in relation to the "Gyear molars', see Section 6.7.

We have already shown that adults aged 16-34 with some natural teeth who were treated by the school dentist have on average 2 more missing teeth than others in their age group. We now examine whether this difference is related to particular teeth.

In Table 11.7 we show, for each individual tooth position in both jaws, the proportion of teeth that are missing among adults aged 16-34 who still have some natural teeth. The results are shown in relation to whether treatment was received through the School Dental Service.

For every tooth position except for third modans (windom teeth) the proportion of teeth found to be missing was highest for people who had been treated by a school dentist. Which will be the proposed to the proposed to the property of the proposed to the proposed to the property of the united the property of the property of the property of the property of the united the property of the propert

We look in particular at the 'sixes'. Extractions of 'sixes' is, in general, greater in the lower jaw than the upper jaw, but for those who received treatment

TABLE 117

Proportion of each tooth type that is missing in relation to whether treatment was received through the School Dental Service for adults used 16-34 with some natural teach

Whether trusted by the school dentist	1	Ad	lufts :	iged !	16-34 of	with each	som toos	type	ural s e that	weth,	thou tress	isty t	he p	opor	tica	
		Left						Right								
		Mote.	2	Pi	re- Gres	Canine		Inci	uces		Cariro	h	io- laes	,	Mole	ırs
	4	7	6	5	6	3	2	1	1	2	3	4	5	6	7	Т
	1			_				Uppe	er Jan	,					_	
Never exercised Examined but not treated Examined and treated	413 403 403	12 4 12 7 12 7 19 9	3074 45-6	14 3 17 4 26 3	14 3 9 3 20 8	20000	30 59	25 4 6 10 0	34 44 10 2	% 67 59 129	7,000	14 S 12 7 21 8	×254.4	75.44 10.44 40.4	XX 110	MON.
	Lover Jav															
Never exercised Examined but not treated Examined and treated	69-6 47-0	21 d 16 d 30-1		134	2d 14	E	1:5	1-0	=	10	0.5	42	14:3 11:3	60 t 42 6	22/1 [4/1	

from the school dentist the proportion of missing 'sixes' is high in hoth upper and lower jaws (45-0% upper left, 43-1% upper left, 34-6% lower left, 52-8% lower right). This was a much higher level of extraction than is vident among those who were examined hot not treated (27-4% upper left, 26-0% upper right, 36-6% lower left and 42-6% lower right).

Those who were neither examined nor treated, by the school dentist, had a level of extraction of 'sixes' in between these two extremes (30.2% upper left, 29.4% upper right, 47.1% lower left and 48.8% lower right).

Thus the results, both in terms of the average number of missing teeth, and the proportion of each tooth type that is missing, indicate, to some extent, the effect of the policies pursued. These policies will not have here entirely confined to the School Dental Service of course, but following the repeated recommendations in publications relating to school densityry there is a considerable likelihood of it beling more concentrated there than in the general dental service.

The School Dental Service is obviously of considerable importance for the maintenance of dental health among childrea. About a third of the people in the age group 16-34 relied solely on the school service before the age of sixteen. It seems, therefore, undertomate that lack of resources limited the type of treatment this service could grovide. Children whose dental experience consisted of treatment for the relief of pain are not likely to expect or sect conservative testiment for the relief of pain are not likely to expect or sect conservative.

11.2 Dental attendance pattern for adults with some natural teeth

We have already seen that dental attendance pattern is a very important factor in determining dental health. This section deals in detail with the distribution of the different attendance patterns for different serous of neonle.

Firstly we examine, for the two major age groups, whether the dental attendance pattern varies in different regions

Among the older age group there is little regional variation, although in London and the South East a slightly higher proportion of people attend for a regular check up and fewer to go the denits only when they are having trouble

TABLE 11.8

)	Dental attenda	nace pattern by	y region and a	æ						
		Adolts upod 16-34 with some natural teeth.								
Dental attendance pattern	The North	Wules and the South West	Midands and East Anglia	London and the South East	England and Wales					
Reguler check-up Occasional check-up Only when having trouble	57-7 14-8 47-5	27 47 179 397	45-9 8-2 45-9 100-0	51-4 13-4 34-6 100-0	45-3 13-4 41-3					
Store	226	107	186	297	816					
		Adults aged 35	or more with so	na matural seeth						
Dental attendance pattern	The North	Wides and the South West	Midlands and Exat Angles	Looden and the South East	England and Wales					
Regular check-up Occasional check-up Only when basing trouble	36·2 4·4 59·0 100-9	50-2 13-1 54-7 100-0	33-0 8-6 58-4 100-0	55-6 9-4 51-8 100-0	56-0 8-8 55-2 100-0					
Bass	210	196	117	375	878					

TABLE 11.9

Length of time since last visit, by dental attendance pattern and age

		England	and Wales				
Length of time since last went to the dentist	Regular Check-up	Occasional check-up	Only when have trouble	All			
	Adults aged 16-34 with some natural teeth						
Under treatment now Less than 6 months 6 months less than 1 year 1 year less than 2 2 years loss than 3 3 years less than 5 5 years less than 5 10 years or more	6-8 61-8 27-7 3-1 0-3 0-3 100-0	\$7 24-5 33-0 19-8 12-3 3-8 0-9	24 123 193 169 163 163 120 4-5	36-4 24-9 11-0 8-5 7-3 5-1 1-9			
Base	364	106	332	802			
	Adults agod 35, or more, with some natural teeth						
Under treatment now Less than 6 months 6 months less than 1 year 1 year es than 2 2 years less than 3 3 years less than 5 5 years less than 10 10 years or more	7.3 59.3 27-4 4.1 1.6 0.3 —	10-4 26-7 31-1 20-8 7-8 5-2 ———————————————————————————————————	2.7 12.0 11.8 13.0 12.0 16.1 13.7 18.7	5-0 29-8 19-0 10-5 7-9 9-5 7-5 10-8			
Base	316	77	485	878			

with their teeth. Among the younger any group, however, there is a large regional variation. In London and the South East 51.4%, of those paged 16.24 attend the dentist for a regular check-up. In the North 37.7%, of the same age group attend for a regular check-up. In the North 37.7%, of the same age group attend for a regular check-up. In the North 37.7%, of the same age in the North attend only when they are having trouble with their teeth, 47.5%; this compares with 348% in Lordon and the South East.

We look next at the length of time that has elapsed since the person last went to the dentist, according to what they consider to he their general attendance pattern.

Of the people who said that they went to the densits for a regalar clack-up.

50%, of those aged 16-14 and 59% of look aged 35 or more said they had been under density which the previous year (12 months). Among those who only the said that the said the s

Since we have already seen in Table 6.6 that there is a regional variation in the type of dental attendance among those aged 16-34, we examined the two extreme dental attendance types in relation to the last visit to the dentist for each region separately. We give the summarised results in Table 11.10.

TABLE 11.10
Attendance within the last year, by region and attendance pattern

	Adults aged 16-34 with some natural teeth Proportion who had been to the dentist within the previous year					
Region						
	Attend for a regular check-up	Attend only when have trouble				
The North Wales and the South West Midlands and East Anglis London and the South East England and Wales	96-4% 97-8% 94-0% 97-3% 96-3%	38-4 % 36-7 % 26-2 % 34-9 % 34-0 %				

The results show that although the proportion of people in each dental attendance group varied regionally this was not caused by any difference in interpretation of attendance patterns but by a real difference in behaviour.

11.3 The perfect mouth

Among those who were examined there were 151 adults with all their natural teeth present, except perhaps for third molars (wisdom teeth). Of these 6 were found to have one or more teeth that were not restorable. Consequently, when treatment was sought this would lead to extractions so these 6 people could never have a fully restored mouth. They were therefore discarding.

This left 145 persons with potentially fully restorable mouths. Of these 69 had no neitive decay but some text personally restored. A further 69 had some active decay, but with treatment they also could be fully restored. This left seven people who had no nextive decay and no previous restorations, and who therefore had a perfect set of teeth as far as decay was concerned. This means that only 3 per thousand of the adult population have a full set of natural teeth without

any visible signs of present or past decay.

These seven included five men and two women. Four of the seven had all 32 teeth, one had only some of his wisdom teeth and two had no wisdom teeth. None of the seven appeared to take particular care of their teeth, three had never been to a dentist. When the seven were examined with regard to gum disease only two were completely free from disease, although none had very

extensive gum trouble.

Of the seven with decay-free teeth, four were Indians or Pakistanis, and one was a Nigerian, all then five were born overseas. Only two of the seven exe English. Of the two who had neither decay nor gun disease one was an Indian and one was English. Bearing in indie that less than one per conf' of the population of England and Wales was here not their mouths these immigrant groups are exceptionally well off compared with the native born population.

11.4 Private treatment

One of the surprising findings in the two-town study of Darlington and Satishary was the proportion who obtained their treatment privately, 11%; in Satishary and 14%, in Darlington. In this survey we asked all those people who had obtained some doesn't reatment since 1948 whether their last course of treatment had been obtained under the National Health Service or whether it had been private. We asked this question in relation to the last course of treatment so that we could examine the kind of treatment that had been received privately.

Of those who had no natural teeth but had heen to the destits in the last twenty years 9-1% said that their last course of treatment had been wholly private. Of those who had some natural teeth and had had dental treatment in the last twenty years, 10-8% said that their last course of treatment had been wholly private.

It is generally believed that people choose private treatment because they believe that they obtain better value, either in terms of treatment or service. Certainly the people in the two-town study felt this. What sort of dental treatment is it that is thought to be an improvement on that which can he obtained through the National Health Service?

Among the 81 totally dentured persons whose last treatment was private, 46 had replacement dentures, 19 had final extractions and the provision of dentures, 10 had repairs earried out to existing dentures, 5 had roots or wisdom teeth extracted and one had two gold teeth added to the full denture.

There were 198 people with some natural teeth whose last course of treatment had been private, 128 were people with natural teeth only, and 70 had both natural teeth and dentures.

^{*1966} Census. †Demand and Need for Dental Care p. 41.

Among the 128 who had only natural teeth there were \$2 people for whom the last course of treatment, which was ordunized privately, proveding that the last course of terratenets, and a further 13 people had two toeth extracted but no conservative treatment, and a further 3 had move that two teeth extracted the again with no conservative treatment. Thus \$9 people had private treatment which consisted of extractions only. Of the rest 24 had treatments which consisted of extractions only of the rest 24 had treatments which consisted of extractions only of the rest 24 had treatments which complete the standard of the rest 24 had treatments which consisted of extractions only of the rest 24 had treatment which consisted restractions. There were 4 people whose private the treatment for gum disease.

For partially dentated persons the pattern of treatment is much more complicated as it may or may not incude transment for dentaters. Among the 70 partially dentated persons whose bast course of treatment was wholly private 31 and extractions only but notching involving dentaters. There were 11 people who had extractions only but notching involving dentates. There were 11 people who are the state of the s

There were thus 170 people among those with some natural teeth whose private treatment did not involve denture work. Of these 129 had extractions only with no conservative work involved.

Thus a large proportion of the people who had private treatment were not, as might have been expected, attempting to obtain for themselves treatment heyend the scope of the National Health Service. The treatment which many of them obtained was, in fact, akin to emergency treatment for the relief of pain.

The high proportion of this 'emergency' treatment among those who obtained their last treatment privately goes some may to explain the existence of the National Health Service provision for emergency treatment of examp lattents' (However, such a provision, ablett to cover an area of treatment which would not be a provision, ablett to cover an area of treatment which would remember the provision of the provision and the pro

We present this question of who obtained what kind of private treatment is relation to all those people in our sample whose private treatment had not involved dentures at all, that is 170 people. We examined them in terms of the whole the properties of the private properties of the private private who had private treatment for this under not the travery, Only 276%, of those social class 1, II or III non-manual. This is somewhat contrary to general special contraction of the private properties of the private properties of the properties of the private propert

It is thus quite clear that there are two types of private treatment for natural teeth. Treatment involving conservative work is concentrated among the social classes where such treatment might be expected. The existence of private treatment for extraction alone accounts for the curiously high level of private treatment among the lower social classes.

We have been concerned in these analyses with the people who obtain private treatment. We have examined all those whose last course of treatment was private and this last course of treatment could have taken place at any time in the last twenty years. Ohviously the kind of people who have private treatment for the relief of pain do not attend as often as those who obtain private conservative treatment. These figures cannot therefore he used to estimate the proportion of treatment that is private. Those who attend regularly will go to the dentists many times more often than those who only attend for an occasional extraction. Consequently, although this data demonstrates the different types of treatment ohtained privately by different groups of people, it must on no account he used to estimate the proportion of all treatment that is private.

11.5 The last course of treatment, for adults aged 16-34 with some natural teeth.

We examine in detail the treatment that was received in the last course of treatment by adults aged 16-34 with some natural teeth. This is a very important age group since the future level of total tooth loss depends on the progress of their dental health. Also, of course, they have had the opportunity of National Health Service dentistry for a large proportion of their lives.

It is not possible to present the information about the last course of treatment in a meaningful way without first making clear the system under which dentistry is obtained. The vast majority of this group (over 90%) obtained their last course of dental treatment through the National Health Service.

How does a person become a patient for dental treatment under the National Health Service? The following explanation is quoted from the 'Handbook for General Dental Practitioners'*.

... "Anyone may apply for dental treatment to any dentist whose name is on a dental list and the practitioner has the right to accept or refuse him for treatment under the Service. A course of treatment is normally completed when the practitioner has carried out all the treatment necessary for dental fitness that the patient is willing to receive. When further treatment becomes necessary it is open to the patient to apply for treatment to his previous treatment becomes necessary it is open to the patient to apply for treatmen weactitioner.—who may refuse if he wishes—or to any other practitioner.

A patient does not register with a dental practitioner as with a medical practitioner, There is, therefore, no dental card corresponding to the medical card; nor is it necessary for the patient to produce a doctor's certaficate before he is eligible for dental treatment

... Treatment

The practitioner is required to employ a proper degree of skill and attention. This does not mean a specialist degree of skill but the reasonable skill and care normally expected of a general dental practitioner in treating his patient. Except where certain limited treatment is provided under the special procedure for casual

patients the practitioner is required to provide and complete satisfactorily all the treatment necessary to secure dental fitness which the patient is willing to undergo.... . . . Treatment of cusual patients

Practitioners may accept casual patients for the following items of treatment only without incurring the obligation to carry out all accessary treatment. (a) Denture remains costing not less than

(b) The following items of emergency treatment?

(i) not more than two extractions

*Handbook for General Dental Practititioners, National Health Service, Ministry of Health Revised to 1st March, 1966. †Emergency treatment is defined earlier as "any treatment immediately required for the relief

of pain or other urgent symptoms

(ii) the administration of a general appendence

(iii) the dressing of teeth (iv) arrest of abnormal haemorrhage

(v) a single radiological examination involving one intra-oral or extra-oral film. in connection with treatment under (i) or (iii) above

(vi) Domiciliary visits in connection with any of items (i)-(v) above."

Thus National Health Service dentistry is not hased on a system of patients registering with a particular dentist. The responsibility of a dentist to a nationt. and vice-versa, technically lasts only for the duration of one course of treatment. The system is thus completely flexible. Despite this flexibility there are special instructions for the treatment of what are called 'casual patients'. Who are these casual patients? How are they defined? At what point does a dentist determine whether the patient is 'casual' and what are his criteria?

We have already seen in Table 6.7 that among people aged 16-34 who still have some natural teeth but who only so to the dentist when they are having trouble with their teeth, a very high proportion (approximately 40%) of those outside London and the South East had no teeth at all which had sound fillings. This suggests that such people may well have had nothing but 'emergency treatment' all their lives.

If the School Dental Service cannot provide full conservative treatment and the treatment of casual patients under the General Dental Service allows essential work to he carried out for the relief of pain, without responsibility for the rest of the mouth, how is this group of people ever going to be encouraged to chance its dental attendance habits? Whose responsibility is it to introduce them to conservative dentistry?

With this as hackground, we examine the type of treatment obtained in the last course of treatment for those aged 16-34 who still have some natural teeth.

The combination of items that made up different courses of treatment were very varied but we summarised the main items in the following way so that we could more realistically examine the details of treatment received during the last course:

(i) people who had no fillings and no extractions

(ii) people who had some fillings and no extractions (iii) people who had some fillings and some extractions

(iv) people who had no fillings and some extractions.

We have thus temporarily ignored such items of treatment as X-rays, and scale and polish for this summary classification. We have also excluded items of treatment relating to partial dentures. The people who had no fillines and no extractions are, for the most part, those who needed a clean and polish only, a few, however, needed denture treatment.

Initially we examined this summarised classification of the treatment received according to dental attendance pattern.

Only 6-6% of those aged 16-34 with some natural teeth, and who attend for a regular check-up had any teeth extracted during their last course of treatment. whereas among those who only attend when they are having trouble with their teeth 69-3% had some teeth extracted, 47-6% having extractions but no fillings done. Looked at another way, of all the people in this age group whose last treatment consisted of extractions and no fillings 89-6% were among those people who only go to the dentist when they are having trouble with their teeth.

TABLE 11.11

Summarised pattern of	Adults aged 16-34 with some natural tooth in England and Wales								
treatment received in the last course*	Attends for regular check-up	Attends for occasional check-up	Attends only when having trouble	All					
No fillings no extractions Some fillings no extractions Some fillings some extractions No fillings some extractions	33-8" 59-6 4-3 2-3 100-0	18-4 53-2 17-4 11-0 100-0	9-2 [%] 21-5 21-7 47-6 100-0 69-3	21-0 [%] 42-1 13-6 23-3 36-9					
Base	379	123	369	871					

^{*}Those who were under treatment at the time of the interview have not been included as the final extent of treatment was not known.

Adults aged 16-34 with some natural teeth

TABLE 11.12
Major type of treatment received, by region and attendance pattern

Summarised pattern of treatment received in		Those who at	tend for a re	galar check-u	p			
the last course	The North	Wales and the South West	Midlands and East Anglsa	London and the South Fast	England and Wales			
No fillings no extractions	37.2	% 36-4	33.0	31-8	33.g			
Some fillings no extractions Some fillings some	55-1	56-8	64-6	60-1	59-6			
extractions No fillings some	6-4	-	2-4	5-4	4-3			
extractions	1-3	6-8	-	2.7	2.3			
1	100-0	100-0	100-0	100-0	100-0			
Base	86	47	87	159	379			
	Those who attend when they have trouble with their teeth							
Summarised pattern of treatment received in the last course	The North	Wales and the South West	Midlands and East Anglia	London and the South East	England and Wales			
No fillings no	%	%	%	%	%			
extractions	8-9	6-5	9-4	10-5	9-2			
Some fillings no extractions Some fillings some	20-6	10-9	13-5	34-3	21-5			
extractions No fillings some	25-0	17-4	15-6	25-7	21-7			
extractions	45-5	65-2	61-5	29-5	47-6			
	100-0	100-0	100-0	1000	100-0			
Base	114	48	96	111	369			

Quite a high proportion of those who attend for a regular cbeck-up required neither fillings nor extractions (33-8%), very few who attend when they have trouble with their teeth required no fillings and no extractions (9-2%, consisting mainly of people whose partial dentures needed attention).

We examine the two extreme dental attendance patterns in more detail, showing the regional variation.

Again we see that for those who attend the dentist for a regular check-up, region has very little effect. A very similar proportion of the types of treatment received during the last course of treatment occur in each region and they are, for the most part, non-extraction treatments.

In contrast those who only attend when they have trouble with their text have a treatment pattern which varies with the region, In all regions there was a higher proportion of treatments involving extractions among this group of irregular dreat attenders, but the proportion whose treatment involved extractions but no fillings varied regionally from under 30%, in London and the South East to more than 45% in the North and our 60% in the other two resions.

We were interested to examine the number of visits to the dentist that were involved in the most recent course of treatment. Obviously, this number is determined by the type of treatment that is carried out. The tables, therefore, show the number of visits in relation to the major forms of treatment carried out.

TABLE 11.13

Numeer or	risons in the int	t contro or tre	activent, by may	ie type or treat	DIRECTAL				
Number of visits		Adults aged 16-34 with some natural teeth							
in last course of treatment	No fillings no extractions	Some fillings no extractions	Some fillings some extractions	No fillings some extractions	All				
One Two Three Four Five or more	87-2 9-3 0-6 1-7 1-2 100-0	29-7 34-0 21-2 8-4 6-7	4-5 12-5 30-3 29-5 23-2 100-0	75.7 13.2 4.7 4.2 4.2 100.0	48-5 21-2 14-2 8-9 7-2				
Base	172	345	191	112	871				

The people who had no fillings and no extractions and those who had extractions only, were the two groups who mostly had treatment completed in one visit. The type of treatment that involved many visits was that which resulted in some dillings and some extractions. It would obviously be of interest to examine the number of visits further, taking attendance pattern into account as well as treatment received.

In Table 11.14 we show the two extreme dental attendance groups, those who attend for a regular check-up and those who only go when they have trouble. It is interesting to compare the number of visits for these separate groups. The regular attenders are made up practically entirely of the two types of treatment which do not involve any extraction. Among those who also fillings and no extractions over 90%, made only one visit, for those who needed some fillings a

third were dealt with in one visit, another third in two visits, a further fifth in three visits and the rest in more than three. Thus the courses of treatment for regular attenders were fairly short. Over a half, in all, had only one visit, three quarters were dealt with in one or two visits.

For the irregular attenders the pattern was different. Firstly, of course, the majority were in the treatment types which did involve extraction. Among those who had no fillings and no extractions just over 70% made only one visit. This proportion is lower than for the regular attenders as there are more denture troubles included among these irregular attenders and these tended to require more visits.

TABLE 11.14

Number of visits in the last course of treatment, by attendance

	No fillings no extractions	Some fillings no extractions Those who at	Some fillings some extractions tiend for a reg	some extractions	All					
Number of visits in last course of treatment One Two	no extractions	no extractions Those who as	some extractions ttend for a reg	some extractions	All					
in last course of treatment One Two	91.6			ular check-up						
treatment One Two	91-6	%		Those who attend for a regular check-up						
Four Five or more	7.6 0.8 	33.9 35.0 19.1 7.1 4.9	- ×		51-9 24-7 13-9 5-6 3-9					
Hase	119	210	15	-	379					
Number of visits in last course of	Those who attend when they have trouble with their teeth									
n nat course of treatment One Two Three Four Five or more	72-7 15-2 3-0 3-0 6-1	27-3 29-8 24-7 6-5 11-7	6-4 11-5 23-1 30-8 28-2	77.7 11.8 3.5 2.9 4-1	50.9 16-1 12-2 9-7 11-1 100-0					
Base	33	77	78	171	369					

The irregular attenders who had fillings but no extractions have a distribution fairly similar to the regular attenders but with a higher proportion having lengther courses of treatment. The group of particular instruct is the one including irregular attenders who had both fillings and extractions during the last course of treatment. The fact that one or more extractions were necessary suggest that these months were to some extra neglected not in these cases they were being restered to reasonable detail fitness. The proportion of people in (950%), only 64%, made one with only to be destined was very high induced to 1960%), only 64%, made one with only 1960% of 1960%.

Compare this with the number of visits made by those irregular attenders who had extractions only in their last course of treatment. Here 77-7% made only one visit to the dentist: 7-0% makins four or more visits.

Later we investigate how many of those who only had extractions appeared to have had treatment which came within the definition of emergency treatment of easual patients, but here we merely compare the large amount of time involved in making irregular attenders seemingly dentally fit, and the contrast in carrying out extractions alone.

We examine next whether or not an X-ray was taken during the last course of treatment. Again we examine this in relation to the treatment carried out during the last course.

TABLE 11.15
Whether X-ray was taken, by major type of treatment

	TREUM ACTIN	was marcin, of	ander type or i	A CHILDREN IN				
Whether an X-ray	Adults aged 16-34 with some natural teeth, in England and Wales							
was taken in the last course of treatment	No fillings no extractions	Some fillings no extractions	Some fillings some extractions	No fillings some extractions	Ali			
Had X-ray Did not Don't know	97.4 90-6 — 100-0	22.6 76.2 1.2 100.0	31-3 66-9 1-8 100-0	8-4 90-1 1-5 100-0	17.7 81.1 1.2 100.0			
Base	172	345	112	191	871			

The taking of X-rays was thus associated with whether or not fillings were carried out. We examine in Table 11.16 the proportion of people who said they had an X-ray taken according to their treatment, their dental attendance pattern and region.

TABLE 11.16

Whether X-ray was taken by attendance pattern, region and major type of treatment

Comparison	Adults aged 16-34 with some natural teeth, proportion who had an X-ray taken							
between two	Attend for res	pilar chock-up	Attend when have trouble with teeth					
regions	No fillings no extractions	Some fillings no extractions	Some fillings no extractions	Some fillings some extractions	No fillings some extractions			
The North London and the South East	6-8 % (29) 17-0 % (47)	46 % (43) 38-2 % (89)	17-4 % (23) 30-6 % (36)	25.0% (28) 33-3% (27)	0.0% (51) 16-2% (31)			

There was a considerable regional, treatment, and attendance pattern variation in the use of X-rays. In the North, except for those people whose treatment was confined to extraction only, it was the irregular attenders. In clouds and the new X-rays and nor frequently than the regular attenders. In clouds and the control of the regular attenders. In clouds and the pattern is a simple of the regular attenders in Choden and the pattern is a simple of the regular attenders. In clouds and the pattern is a simple of the regular attenders in the control of the regular attenders in the control of the regular attenders in the pattern is a fine of the regular attenders in the control of the regular attenders in the size course of treatment, in while so and the South West 120% had had no X-ray and in London and the

South East 32-1% had had an X-ray. The differential regional use of X-rays has been a source of great puzzlement.

Finally in this section, which deals with the last course of treatment for adults aged 16-34 with some natural teeth, we examine in detail the 171 who, in this last course of treatment, had extractions but no fillings, (see Table 11.14).

We were interested to find out how many of this group were having treatment which fall within the defination of "treatment for essual patients". Among the group there were 14 people who were having extractions and partial dentures intend. In addition, the resultion, the resultion, the resultion, the resultion, the resultion there were for people who the tenturnen had not not alread, in the contraction of the

Taking private treatment and National Health Service treatment together there were 138 people in this group who received treatment which fell within the definition of 'treatment for casual patients', 30% of such treatment being obtained privately.

Of the 138 who had casual treatment, 16 were not examined in our survey.

dental examination, so we do not know the state of their mouths. The remaining 122 were examined. Of these, 59 had no fillings at all in their mouths, and 46 said they had never had a filling in their lives. Among those who did have restorations not all of the fillings were sound.

Where a person is treated as a 'casual patient' no restorative treatment can be given and only two teeth may be extracted. If any restorative work is undertaken, then the dentist has the responsibility under the National Health Service of making the person reasonably dentally fit.

This poses quite a problem where people only ever have casual treatment. If we look at those people who have only recently had their last casual treatment it becomes clear that these people must have had a considerable amount of decay present and untreated at the time of their last extractions.

There were 17 people among those whose last treatment bad fallen within the definition of 'casual treatment' who had attended the dentist within the six months preceding the survey and had been examined by a survey dentist. Among his group there wer? 2 people who, on the survey examination, had no active between three and seven teeth with active decay (but restorable), and 5 had from one to seven teeth that were not restorable at all.

What will bappen to the person with seven unrestorable teeth next time he obtains dental treatment? Only 2 can be extracted if he bas National Health Service easual treatment. At what point does he have a course of treatment resulting in him becoming edentulous?

It is obvious that, in these circumstances, not only is active decay not treated on teeth that are restorable, but teeth which are, in fact, not restorable will sometimes be left in the mouth.

11,6 Cleaning natural teeth

During the interview every person who still had some natural teeth was asked

how often he cleaned his teeth. The variation in frequency of cleaning for different dental attendance groups was quite considerable. Again we see that those who visit the dentist only when they have trouble with their teeth have a different pattern of hehaviour. The picture is similar for those aged 35 and over and those aged [6–34.

TABLE 11.17

Frequenc	y of tooth cleani	ng by attendance	pattern and age			
Frequency of cleaning	Adu	lts aged 16-34 w	ith some natural	tooth		
natural teeth	Attend for regular check-up	Attend for occasional check-up	Attend when have trouble with teeth	All		
Nover Less than daily Once daily Twice daily Three or more times daily	2-6 30-2 36-9 10-3 100-0	3-5 37-2 54-1 5-2 100-0	1.9 1.9 1.8-4 43-3 33-1 3-3 100-0	6.5 100-0		
Base	379	115	369	871		
Frequency of cleaning	Adults aged 35 or more with some natural teeth					
natural teeth	Attend for regular check-up	Attend for occasional check-up	Attend when have trouble with teeth	All		
Nover Less than daily Once daily Twice daily Three or more times daily	27-6 27-6 57-3 12-7	3-6 45-7 43-5 7-2	6-0 13-4 40-4 34-7 5-5	3-8 8-6 36-5 43-1 8-0		
	100-0	100-0	100-0	100-0		
Base	340	84	533	983		

We examined more closely those whose attendance pattern was the most ringular, comparing those in the North with those in London and the South East, for previously we have found some regional variation in this attendance pattern. There was a different distribution of ceth eleming habits in the North, that the state of the Again this was so for hoth age range of the state of the state of the state of the Again this was so for hoth age range.

During the interview we asked people with some natural teeth if they would demonstrate to as how they cleaned their teeth. We wished to find out how many people demonstrated an action which started with the tooth brash on the guns and then proceeded to the teeth, using a wrist catelon and dealing with upper and lower teeth separately. In all there were 76 people who appeared to clean their teeth with this periculear cleaning action, that is shout 4%, of all those with some naturant teeth. Of the 76 who cleaned their teeth with this wrist accion exists from the unset to the teeth. 3 were required from attemption.

TABLE 11.18

Frequency of	tooth cleaning	by region, attendar	sce pattern an	d age
Frequency of cleaning	Adults aged	16-34 with some and teeth	Adults aged	35 or more with satural teeth
natural teeth		en have trouble th teeth	Attend wh	en have troubte ith teeth
	The North	London and the South East	The North	London and the South East
Never Less than daily Once daily Twice daily	6.9 22.5 45.2 27.9	1.8 9.9 42.3 43.3	5.7 17.5 42.4 30.8	4-7 8-4 37-7 42-2
Three or more times daily	3-5 100-0	100-0	3-6	7-0
Base	114	111	140	215

were interested to know whether a denits that demonstrated this method to the person, 36 said they had heen shown by a dentist, 40 said they had not. Among those who had not, 15 indicated that they had read something ahout it, had seen pictures of how to do it, heen shown at school, seen it demonstrated on television or hen shown by a fixed or relative.

The whole question of tooth cleaning and its effects is very complex and the data from the survey have by no means heen exhausted in this initial examination of tooth cleaning habits. We hope to pursue this question elsewhere hut time has not permitted us to do so for this report.

11.7 Preference for extractions versus fillings

During the interview all the people who still had some natural teeth were acked whether they would prefer the cost to be extracted or filled if they had one that was seining. The question was asked separately concerning an aching hack tooth and an aching frost tooth. Table 11.9 shows the preferences with regard to a hack tooth or a front tooth. The results are shown regionally and for the two main age groups.

For England and Wales as a whole people showed much greater preference for restoring front teeth than restoring lank teeth. For those aged 16–34 a much higher proportion of people preferred filling to extraction whether it was a front or a hock tooth that was aching. For those aged 35 or more, more people wanted an anching front tooth filled rather than extracted, but as for as hack teeth were concerned they were equally divided on whether they would prefer it filled whether they would prefer it filled the substitute of the proposed to the proposed to

When looked at regionally one finds that the overall higher preference for filling rather than extracting front teeth, as compared with hack teeth, is common to all regions and all age groups. It would thus seem that appearance plays some considerable part in influencing dental attitude.

Among those aged 16-34 there is little difference regionally in the proportion of neople preferring fillings for front teeth. The regional levels are fairly similar

TABLE 11.19

Professors for		Adults aged 16-34 with some natural teeth								
extractions versus fillings if a tooth was	The Wales and the South West		Modlands and East Anglia		London and the South East		England and Wales			
tong.	Back tooth	Front tooth	Back tooth	Front tooth	Back sooth	Pront tooth	Back sooth	Front teoth	Back tooth	Fron
Have it out Have it itled Other qualified answer	423 51-7 6-0	19-2 78-3 2-5 100 0	43-2 43-6 5-2 100-0	243 73-1 2-6	42.5 47.5 40 100-0	18-0 68-0 4-0	23-3 67-6 4-1	151 100 14	39 0 36-2 4-8	20 76
Base	23		11		20	100 0	100-0	100 0	190 0	100-0
Preference for	L		Adals	rged 33	or mos	with so	one natural teets			
estructions versus fillings if a tooth was aching	No	he rth	Wales a South	und the West	Midlan East	ds and legile	Lends the Sou	n and th East	Eng	land Votes
	Back tooth	Pront tooth	Back tooth	Front tooth	Back tooth	Foont tooth	Back tooth	Front tooth	Brek troth	Front
Have it out Have it filled Other qualified mawer	574 427 39	34 6 62 0 3 4 100 0	4773 457 7-0 100 0	34 9 62 8 2 3	567 33 0 4 3	68-6 69-6 2-4 100-0	41.6 54.7 3.7 100-0	29-5 67-8 27 100 0	479 473 48 100 0	33 ± 61 4 2-7
Base	23	4	12		21)	40		97	7

for the older age group except for an unexplained lower level of preference for fillings in the Midlands and East Anglia.

There is much more regional variation, however, in the preferences expressed for hack teeth. About 45% of people aged 16-34 in regions other than London and the South East would prefer an aching back tooth to he extracted rather than filled, whereas in London and the South East under 30% of this age group preferred extraction.

In the Oder age group the level of preference for extraction was higher and there was less marked regional variation, although London and the South East had the lowest proportion preferring back tooth extraction. This variation between region and age group may possibly reflect indications that we have found diswehrer that progress in dental health attitudes and behaviour is develonism more raisfully in London and the South East than elewbar.

We also examined the preference for treatment for an aching (cost in intention to general intendance pattern CEIDs 11.20) For all detail attendance treatment of the contract of the contract of the contract of the tention was enrounced between these whose to the desirts for a regular tentions was enrounced between these whose pot to the desirts for a regular tention was enrounced between the whose to the desirts for a regular part of the contract of the contract of the contract of the contract Among the younger use only go when they have trouble with their tent. Among the younger use only go when the property of the traced, whereas 37.9% of those who only go to the densit when they have traced, whereas 37.9% of those who only go to the densit when they have traced to the contract of the contract of the contract of the contract traced, whereas 37.9% of those who only go to the density when the contract traced in the contract of th

TABLE 11.20
Preference for extraction versus filling, by attendance pottern and age

Preference for		Adul	its aged 1	6-34 wi	th some	natural t	oeth	
filling, if a tooth was aching	res	nd for ukar k-up	OCCR	d for nonal k-up	having	i when trouble teeth	^	d)
	Back tooth	Front tooth	Back tooth	Front tooth	Back tooth	Front tooth	Back tooth	Front tooth
Have it out Have it filled Other qualified answer	15-3 79-2	74 89-0	22-6 69-6	8.7 87-0	68-6 28-5	37.7 59-6	39.0 56-2	20-5 76-2
	5.5	3-6	7-8	4-3	2.9	2.7	4-8	3-3
	100-0	100-0	100-0	100-0	100-0	100-0	100-0	100-0
Base	37	19	11	5	36	9	88	3
Preference for		Adolts	aged 35	or more	with sor	ne matura	d teeth	
extraction versus filling, if a tooth was aching	103	nd for plar sk-up	occar	nd for sional sk-up	having	1 when trouble teeth	All	
	Back tooth	Front tooth	Back tooth	Front tooth	Back tooth	Front tooth	Buck tooth	Front
Have it out Have it filled Other qualified	18-2 77-9 3-9	8-5 88-8 2-7	23-8 69-0 7-2	143 833 2-4	25-1 5-0	55-3 41-8 2-9	47.9 47.3 4-8	35-5 61-8 2-7
answer	100-0	100-0	100-0	100-0	100-0	100-0	100-0	100-0
Base	3-	10	1	84	5	53	9	77

The treatment preferred for aching back teeth, for people of different dental attendance pattern, is obviously destined to preserve the regular attendars as precipe with some natural teeth and to accelerate those who only attend when they have trouble on the path towards total tools lost. Among those agid 16-34 who go for a regular check-up 15-3½, would prefer to have an aching back tools extracted. Among those of the same age, who only attend when having trouble, 68-6%, would prefer to have an aching back tooth extracted. Similar differences were apparent among the older age group.

In Table 11.21 we show in a summarised form the proportion of people prefering filling to centration, showing demail astimations pattern and the two extreme regions. It is of interest to see that there are only. The major regional variations occur among those who only stated when they are lawing trouble with their teeth. Even here most of the variation is confined to back teeft rather with their teeth. Even here most of the variation is confined to back teeft rather trengther attenders would prefer an achievable should be to the local of the conservable transmert runs higher among regular attenders the Localon and conservable transmert runs higher among regular attenders to Localon and

TABLE 11.21

	P	Proportion who would prefer aching tooth t adults aged 16-34, with some natural						to be filled,		
	reg	ds for ular k-up	occar	ds for sional sk-up	when	ds only having uble	/	dI.		
	Back tooth	Front tooth	Back tooth	Front tooth	Back tooth	Front tooth	Back tooth	Front tooth		
The North London and the South East	81-4% 81-8%	954% 87-4%			24-6% 44-1%	63-2% 69-4%	51.7% 67.5%	78-3 % 80-9 %		
	P	roportio adults	n who w aged 35	ould pre or more	fer achin with son	g tooth i	o be fille al teeth	d,		
	Back tooth	Front tooth	Back tooth	Front tooth	Bdck tooth	Front tooth	Back tooth	Front tooth		
The North London and the South East	77-4% 79-5%	92-8% 86-8%		80-0 % 81-6%	20-0% 33-5%		42.7% 54.7%	62-0% 67-8%		

We consider for all those in the younger age group who were examined, how closely their present denals taste is associated with their expressed preferences for treatment. Tables 11.22 and 11.23 show the distribution of the number of teeth found to be filled and the number that were missing for the two main groups of those who would prefer an aching tooth to be filled and those who would prefer an anching tooth to be extracted.

The Tables show that there is obviously a very bigh association between expressed preference for treatment and the current state of the person's mouth.

TABLE 11.22
Number of filled (otherwise sound) teeth, by preference for extraction versus filling

Number of filled	Adults aged 16-34, with some natural teeth							
(otherwise sound)	Prefer achir	ig tooth to be	Prefer aching tooth to be extracted					
	Back tooth	Front tooth	Back tooth	Front tooth				
None 1-5 6-11 12-17 18 or more	26 11.7 33.8 39.5 12.4	7.4 16-3 31-9 34-2 10-2	29-0 26-4 27-4 15-6 1-6	35-8 24-2 26-7 13-3				
Base	488	661	342	181				

TABLE 11.23

	Adul	its agod 16-34, w	ith some natural	tooth
Number of missing teeth	Prefer achir	Prefer achin	extracted	
	Back tooth	Front tooth	Back tooth	Front tooth
None 1-5 6-11 12-17 18 or more	4-1 56-5 33-1 3-7 2-6 100-0	27 52.6 36.5 5-0 3-2 100.0	2:2 34:4 45:3 12:4 5:7	42 29-8 44-3 14-5 7-2 100-0
Base	488	661	342	181

We have earlier seen that there is a regional variation in the amount of restorative work carried out on those who only go to the dentist when they have trouble with their teeth. Is there any evidence of a regional variation in the amount of restorative work in the mounts of those who expressed preference for extraction over fillings, or was the earlier variation the result of a greater preference for fillings in London and the South East?

TABLE 11.24

Preference for extraction, by region, and number of filled (otherwise sound) teeth

Number of filled	Adults aged 16-34 with some natural teeth							
(otherwise sound)			Prefer o	thing too	th to be	extracte	d	
		he orth	Wales South	and the West	Midlar East	nds and Anglia	Lond the So	on and ith Ear
	Back tooth	Front tooth	Back	Front tooth	Back tooth	Front tooth	Back tooth	Fron
None 1-5 6-11 12-17 18 or more	32.3 33.4 25.0 8.3 1.0	38-7 31-8 22-7 6-8 —	35-5 18-7 29-1 14-6 2-1 100-0	424 23-1 19-2 15-3 —	38-3 22-1 25-6 12-8 1-2 100-0	48.9 16.4 24.5 10.2	11-9 27-3 31-0 27-4 2-4	15-2 26-1 36-5 21-8
Base	9	16	4	8		6	1	4

People in London and the South East who express preference for extraction rather than filling, have, in fact, considerably more teeth which are filled (otherwise sound) than people expressing similar preferences elsewhere. It would therefore seem that dentists in London and the South East have been more successful in overcomine reluctance to have filings.

11.8 Attitudes to having dentures in conjunction with natural teeth

All the people who had natural teeth only, and had never had dentures were asked whether, if they were to loose all their back teeth, they would prefer to manage without false teeth, to have false teeth just for the back, or to have the rest of their teeth out and have all false teeth.

We examined the answers to this question in relation to the two broad age groups and dental attendance pattern.

TABLE 11.25
Attitude to having dentures in conjunction with natural teeth by attendance pattern and age

	-,	neo patricen mar a	0.				
Attitude to baving	Adults aged	16-34 with some	natural teeth a	nd no dentures			
dentures if all back tooth were lost	Attend for regular cbeck-up	Attend for occasional check-up	Attend when having trouble with teeth	All			
Manage without false	%	%	%	%			
Have false teeth for	12-8	13-8	15-5	13-8			
the back only Have natural teeth out	80-0	82-2	62-3	72-9			
and full dentures*	7-2	4-0	22-2	13-3			
	100-0	100-0	100-0	100-0			
Base	324	101	297	730			
Attitude to having	Adults aged 35 or more with some natural teeth and no dentures						
dentures if all back teeth were last	Attend for regular ebeck-up	Attend for occasional check-up	Attend when having trouble with teeth	All			
Manage without false	%	%	%	%			
tooth Have false teeth for	13-8	14-6	25-2	21-0			
the back only	79-9	80-3	39-5	57-2			
and full dentures*	63	5-1	35-3	21-8			
	100-0	100-0	100-0	100-0			
Base	179	44	262	491			

*Full dentures here refers to both upper and lower jaws

Among those people whose attendance pattern involved godge to the denial for a decked-top, whether this was done regularly or consulandly, the attitudes to dentures in conjunction with natural treth was very similar. This was no for those aged 16-54 and those aged 35 or more. About 80% of people who has natural tecth and had never had dentures and who attended for a check-up would prefer partial dentures if they lost all of their back tecth. Of the other 20% more would prefer to manage without false tecth than would prefer to have further extractions and be provided with full dentures.

The picture was somewhat different for adults who only go the the dentist

when they are having trouble with their teeth. Among prople with this attendance pattern three was a considerable difference with age also. For those aged 16-34 about 60%, would prefer partial deatures if they lost all their hack teeth, for those aged 13-5 more only about 40%, would prefer this treatment. In this attendance pattern group the alternative to not having partial dentures was more frequently further extraction and full dentures that managing without false teeth. Over 20% of those aged 16-3 with this dental attendance pattern as 35% among those with over aged 35 or more.

It is clear that the attitudes of the different attendance pattern groups with regard to dentures are quite different. It is interesting to sets that the antipath shows towards additional extractions among people who attend for a check-up is maintained for both age groups, whereas the preference of the irregular attenders to have additional extractions is much greater among the older group. It is not possible to all how much this difference is a process of gaing, which will in time affect the present younger age group, and how much is the result of the process of the pr

In Table II.3' we examine the two extreme attendance patterns in terms of the two extreme regions. Again the results are shown for the two major age groups. There was no regional difference in the stitudes to destures of the egular groups. There was no regional difference in the stitudes to destures of the regular standers professed to the stitudes of the regular standers preferred the brought of further extractions and full dentures much that the contractions and full dentures are the table and the standers predested to the standers of the detect Again it is diffused to know the regular attenders and the older group from the North Still contains verdigs of the previous attitudes. On the other hand perhaps the fast that preciscally every other skull in the North has no natural tech makes the total ion of instantial of the standard of the standard standard

Among those who only attend when having trouble with their teeth there are higher personic expressing a perfectnee for further extractions and full destures in the North than there was in London and the South East. This was on in both any groups. The regional difference was smaller among those aged the person of the proportion of irregular attenders who would prefer partial destures if all their back teeth were missing is fally similar in the two regions, it is only a minority attitude. The alternatives perferred are very different regionally, in London and the South East more propel would prefer to manage without false teeth (23.5%) than have further extractions (27.5%) whereas in the NOVE (18.5%) to managing without false (18.5%) are managing without false (18.5%) are managing without false (18.5%) are managing without false (18.5%).

11.9 Attitudes to having full dentures*

Everyone who still had some natural teeth was asked what they thought of the prospect of one day having to have full dentures. Again we examine the answers in terms of two broad age groups and dental attendance pattern.

Taking all attendance patterns together the attitude towards the possibility of having full dentures was similar for both age groups; about a quarter found the idea very upsetting, over 40% found the thought not at all upsetting.

TABLE 11.26
Attitude to dentures by attendance pattern, region and age

Attitude to having	Adults aged	16-34 with some	natural teeth as	nd no dentures		
dentures if all back teeth were lost	Attend for re	gular check-up	Attend when with	having trouble		
	The North	London and the SouthEast	The North	London and the South East		
Manage without false	%	% .	%	%		
tooth Have false tooth for	11-1	7-8	16-5	15-6		
the back only	83-4	82-8	59-3	68-8		
and full dentures*	5-5	9.4	24-2	15-6		
	100-0	100-0	100-0	100-0		
Base	74	128	91	90		
Attitude to having dentures if all back	Adults aged 35 or more with some natural teeth and no dentures					
tooth were lost	Attend for re	galar check-up	Attend when having trouble with teeth			
	The North	London and the South East	The North	London and the South East		
Manage without false	%	%	%	%		
Have false seeth for	16-3	11-8	13-1	32-3		
the back only Have natural teeth out	67-4	85-4	35-1	40-2		
and full dentures*	16-3	2-8	51-8	27-5		
	100-0	100-0	100-0	100-0		
Buse	43	80	61	104		

*Full dentures here refers to both upper and lower jaws,

The group of people who found the thought of full dentures least upsetting were the irregular attenders, half of whom thought it not at all upsetting.

In Table 11.28 we examined what the attitudes to full dentures were in terms of the extreme attendance patterns and the extreme regions. The acceptability of full dentures was greatest in the irregular attenders in the North. There was very little regional difference between resultar attenders.

11.10 The relationship between childhood and adult attendance patterns

Among adults aged 16-34 who still bad some natural teeth present we investigated the relationship between childhood attendance pattern and adult attendance pattern. We were interested to see what was the maintenance or conversion rate to regular attendance (for a check-up) as an adult. We examined

TABLE 11.27

A mituria toursels the equilibries	Ad	ults aged 16-34 wit	h some nuturel teet	h	
Altitude towards the possibility of having to have full destures*	Attend for regular theck-up	Attend for openional check-up	Attend when baving trouble with teeth	AE	
Finds the thought very upsetting Pinds the thought a lattle upsetting Finds the thought not at all upsetting	27 6 35 2 37 2 300 0	29 6 27 0 43 4 100 0	25-6 25-7 50-7 100 0	26'3 23'-8 43'7 1000	
Boso	379	115	369	171	
Attitude towards the possibility	Adults aged 35 or more with some natural teeth				
of having to have full destrous*	Attend for regular thick-up	Attend for occasional shock-up	Attack when bayers trouble with teeth	All	
Finds the thought very upsetting Finds the thought a little upsetting Finds the thought not at all upsetting	35-6 31-6 32-6 100-0	26 ⁷ 2 40-5 33-3 100 0	224 27-5 50-1 100-0	273 30-1 42-6 100-0	
Base	340	54	553	563	

*In this section full destuces refers to both upper and lower Javs.

TABLE 11.28

Attitude to full dentures by attendance pattern, region and age

Attitude covereds the possibility	Adults aged 16-34 with some natural teeth				
of having to have full destuces	Attend for regular check-up		Attend when having trouble with teeth		
	The North	London and the South East	The North	London and the South Eas	
Pinds the thought very upositing Finds the thought a little upositing Finds the thought not at all upositing	25%	263	214	36'6	
	37-6	35:4	21:1	27-0	
	35-8 100 0	36 I 100 0	54-3	42 4 100 0	
Dear	56	159	314	111	
Attitude towards the possibility of having to have full decours:	Adults aged 35 or more with some natural teeth				
	Attend for regular etoek-up		Attend when having trouble with teeth		
Finds the throught very upsetting Finds the throught a little upsetting Finds the throught not at all spetting	The North	Lendon and the South East	The North	London and the South Enr	
	454	35%	260	263	
	28-6	32-5	29-3	26.5	
	31.0	33-7	59.7	47-0	
	100 0	100 0	100 0	100 0	
Base	84	151	149	215	

this in terms of the three main childhood patterns; those who went to a dentist, other than a school dentist, for a regular check-up; those who went to a dentist, other than a school dentist, but only when having trouble with the teeth; and

those who did not go to a dentist, other than a school dentist when they were a child. We also examined this in relation to region. Table 11.29 shows the proportion of each group who attend for a regular check-up, as an adult.

TABLE 11.29
Proportion of people from main childhood attendance patterns

Main childhood	Adults aged 16-34 with some natural teeth					
attendance patterns	The North	Wales and the South West	Midlands and East Anglia	London and the South East	England and Wale	
	Proportion who attend regularly as adults					
Regular check-up Trouble with teeth None*	59-2% (54) 25-8% (62) 30-9% (97)	64-1% (39) 26-7% (30) 27-0% (37)	80-0 % (50) 31-7 % (63) 27-8 % (79)	65-8% (73) 48-1% (79) 39-9%(128)	67-1 % (21- 35-0 % (23- 33-1 % (34	

*Other than the school dentist

For England and Wales as a whole 67-1%, of adults aged 16-34 who went to the dentist (non-school dentist) for a regular check-up as a child have maintained that pattern of attendance as an adult If we look at this group regionally. Lordon and the South East does not seem to have fared hetter than the rest of the country. However, a different picture is presented by the other two childhood attendance group.

For those adults who, as children, went to a dential, other than the school contains, only when having troubles with their stock nor not at all; its interesting to examine the level of convenion to regular attendances as an adult. For Engined and Wales as a whole there is very tilt in effectivene between the conversion of a desired their school of the convenion of the convenience of the

Elsewhere the proportion of people who have become regular attenders is very little different in the two childhood attendance patterns or in the other there treels.

Thus again we find the situation that regular attenders have somewhat similar patterns regionally hut the non-regular attenders are different in London and the South East.

In addition to examining the levels of maintenance and conversion to adult regular attendance we were interested to investigate the variations in attitude, behaviour and present dental health of the various combinations of the main childhood and adult attendance patterns. Table 11.30 gives the results. Each state of the conversion of The first situation investigated is the major form of treatment received in the account of treatment. Those who, as adults, actor requisity received the same kind of major treatment irrespective of childhood attendance pattern. This treatment only every consciously involved cattencien. These who, as adults, attend only when they have trouble with their tech received a very different kind attendance pattern. The streatment of the contract of t

We examined next the attitude towards what kind of treatment would be preferred if a tooth was aching. As has been discussed in section 11.7 there is generally a greater preference to keep front teeth than to keep hack teeth.

It is of interest to see that among those who have heen converted to becoming regular attenders in adult life, the preference for fillings as opposed to extractions is as high as among those who have always been regular attenders. Again greater variation occurs among those whose adult attendance pattern is irregular.

In this group the stated preference in relation to back teeth for extractions as proposed to filling is quite remarkshe, heing well over half. For those people who, in childhood, had attended regularly the proportion who preferred extraction, although high, was not as high as in the other two groups. The greatest preference for extraction of back teeth was found among those who had always the contraction of the proposed of the preferred contraction of the proposed of the pr

It is of interest to see that although the attitudes of those whose attendance pattern has changed from regular attendance as a child to irregular attendance as as an adult have gone a long way towards the pattern and attitudes of the irregular attender they have not gone the whole way. On the other hand those who have been converted to regular attendance in adult life express attitudes similar to those who have been resultar attenders all tiber lives.

Finally we examined for these different groups the number of teeth that were filled (otherwise sound) and the number of teeth that were missing.

Earlier in the report we have seen that the number of teeth that were filled (otherwise sound) among regular attenders was vastly greater than the number of such teeth to be found among irregular attenders. The number of filled teeth was similar among adult regular attenders whatever their childhood attendance reattern had been.

As far as irregular adult attenders are concerned there is a considerable difference according to childhood pattern of attendance. Those who had hear regular attenders in childhood pattern of attendance. Those who had hear regular attenders have a fact of the pattern of the pattern of properties of people with no sound fillings (111-19) and a much higher proportion of people with no sound fillings (111-19) and a much higher proportion with 12 or more teath that were filled (otherwise sound) (19-5%) than either its with 12 or more teath that were filled (otherwise) as under petular view at high and note that have well described (otherwise).

Again we see that regular attendance in childhood is not completely negated by a deterioration in dental attendance pattern in adult life. We also see that

TABLE 11.30

The dental behaviour and bealth of different combinations of childhood and adult attendance patterns

Autonations as shall Regular Week W		and assist attrasance patterns											
Automicaria en delia Regular Secular Regular R			Adults a	ged 16-34 w	ith some na	tural teeth							
Automation and Margine Regular	Attendance as child	Regular	With trouble	None*	Regular		None*						
Parameter	Attendance as adult	Regular	Regular	Regular	With trouble		With trouble						
Section Sect	treatment:-	%	%	%	%	%	%						
Second S	extractions	37-0	35-5	33-3	15-4	9.5	7-6						
Section 15	extractions	58-5	60-5	57-1	28-2	15-1	23-8						
Exempton 3-0	extractions	1.5	4-0	67	20-5	23-0	20-9						
President of the short	extractions	3.0		2.9	35-9	52-4	47.7						
Performance Programma		100-0	100-0	100-0	100-0	100-0	100-0						
Figure 179	preferred for aching	%	%	×	%	%	%						
14-5	filled	77-9	85-4	76-1	37-5	23-7	30-9						
Section Today To	out	14-5	13-4	19-5	55-0	74-0	66-8						
Treatment		7.6	1-2	44	7.5	2-3	2-3						
printer four tools 7		100-0	100-0	100-0	100-0	100-0	100-0						
Property Property	preferred for aching front tooth Prefer front tooth	*	%	%	*	*	%						
Observation 97 40 84 220 359 806	filled	86-8	92-7	86-8	70-0	62-6	57-1						
Section 1,50 2.4 4.0 10 15 2.3 15 15 15 15 15 15 15 1	out	9.7	4.9	8-8	25-0	35-9	40-6						
Number of teach Number of	answers												
Block_Horizon C		100-0	100-0	100-0	100-0	100-0	100-0						
missing 74 75 75 76 76 75 75 75 75	filled, otherwise sound None 1-5 6-11 12-17	5.7 38-1 43-2 12-3	6-2 29-9 49-0 14-9	8-2 37-7 40-3 12-9	44-4 25-0 19-5	29-8 25-8 5-6 0-8	35.0 25-1 6-4						
Number examined 139 80 109 36 124 155	missing Fewer than 3 3-5 6-8 9-11 12 or more	51·1 20·9 9·4 2·8 100·0	37-7 26-2 11-2 7-4 100-0	37-7 33-9 7-3 8-2 100-0	19-4 30-6 30-5 11-1 8-4 100-0	32-3 30-6 10-5 20-2 100-0	25-8 29-0 14-2 18-1 100-0						
			60	109	36	1.09	155						

conversion from irregular attendance as a child to regular attendance as an adult can result in a somwhat similar restoration pattern as among those who have maintained their regular attendance pattern since childhood.

A similar picture emerges from an examination of the number of mixing teach. Here the converts to regular attendance cannot quite make up the level of teeth present among the all time regular attenders in the physical results of a said adult have a somewhat similar distribution of mixing teeth, Those who bever considerable tools to describe the converse of the proportion of considerable tools to describe the other band show a high proportion of considerable tools are the contractions of the contraction of the contraction

Generally speaking, therefore, regular attendance pattern in childhood stands a person in good stead. If the pattern of attendance deteriorists is adult life than it is likely that the densal future for that person will be seriously affected but will not be a sunfovaruble as for those who have never had regular conservative densal treatment. On the other hand those who in adult life have been convected to regular dental attendance, have bed much less extraction than their irregular counter parts, in fact they have received considerable restorative treatment and, whit is more, accesses reference for restorative treatment.

11.11 The work load on the dentist

One of the greatest differences to be found in dental health is the difference heven the amount of restorative treatment received by regular dental attenders, with some natural teeth, compared with that received by irregular attenders.

By comparing the length of time since the last dental visit and the number of visits which make up a course of treatment it is possible to estimate, in very general terms, the work load, for the dentist, of a regular attender compared with an irregular one.

A regular attender with some natural teeth makes, on average, ahout two visits per course of treatment and may bave about one course of treatment every 10 months or so (See Table 11.9). On this basis one regular patient contributes 2 x || visits per year.

An irregular attender, with some natural tenth also makes, on average, about two visits per counce of treatment. (Although full restoration would take more visit, extractions only are usually completed in one visit). However, be probably only attenda about ones in three years (See Tible 11,99. He would therefore, on average, contribute two lithids of a visit per year to the dottile's about the same amount of time as a visit from irregular attender, this means that one regular attender, or the contribute of the probability of the transport of the probability of the probability of the probability of the transport of the probability of the probability of the probability of the transport of the probability of the probability of the probability of the transport of the probability of the probability of the probability of the transport of the probability of the p

Thus if a dentist persuades one of his irregular patients to become a regular attender he increases his work load on average two and a half times with respect to that one patient. This is not the early problem however. Table 11.13 has shown that for irregular attenders the difference in the number of visits of those who were being made dentally fit compared with those who were having extractions only was very great; 22% of person panking five or more visits to become only was very great; 22% of person the great in regular to a regular attender not only increases the frequency of attendance in the long rea, but also requires on only increase the frequency of attendance in the long rea, but also requires

a large amount of time and effort to be spent on initially restoring the irregular attender to dental fitness. This is not only a matter of technical time and effort but the dentist may also bave the problem of overcoming reluctance to restorance to the control of the control

In section 3.4 we gave the regional variation in the population per dentist. From the survey we know the proportion of regular attenders, for the different regions. Assuming that the pattern of attendance among ebildren is fairly statute to adults, to what extent does the number of regular attenders per dentist vary regionally?

TABLE 11.31
Regional variation in the number of regular attenders are dentied

100000000000000000000000000000000000000	the number of regul	an accentores per un	HEIST
Survey Regions	(a) Population per deutist	(b) Proportion that are regular attenders	(c) ⊷(a) x (b) Regular attenders per dentist
The North Wates and the South West Midlands and East Anglia London and the South East	5750 6070 4840 3290	20 % 19 % 25 % 31 %	1150 1150 1210 1020

The number of regular attenders per dentist is remarkably constant for the different regions, except that London and the South East bad slightly fewer regular attenders per dentist.

Although these estimates are fairly crude it would seem that there is a limit on the number of regular patients that can be attended to per dentist. It would seem, therefore, that the proportion of people in the propulation who can become regular attenders is limited by the number of dentists available to provide the treatment, given the present level of disease and dental knowledge.

The fact that the number of regular attenders per dentist is lower in London and the South East suggests that the number of dentists in the region is increasing slightly more quickly than irregular attenders are being persuaded to become regular attenders.

Such a bypothesis is consistent with the fact that London and the South East has the highest proportion of regular attenders, appears to have converted more people from childhood irregular attendance to adult regular attendance, provides more conservative treatment for those who are at present irregular attenders, and has fewer population per dentist than other regular

We would therefore suggest that, given the status upo, the number of dentists required depends on the proportion of people who can be persuaded to become regular attenders. How far can a community go in achieving regular dental attendance. There is no resumber wheth all London and the South East, at 3½ has reached the limit. With the even conversions to regular attendance, even more dentalts will result in an inhibited rate of conversion to regular attendance, shortage of dentists will result in an inhibited rate of conversion to regular attendance. How should scarce resources be distributed? One method, in the past, has been to restrict conservative treatment to those who are already dentally conscious. If this method is allowed to continue and the regional distribution of dentists continues as at present, then the regional variation in dental health will continue also.

PART VI

12.0 CONCLUSIONS

The dental health of the community is a fascinating field for study. It is a subject of interest to everyone since practically no one escapes from dual troubles at some time in his life. The survey has provided detailed information about the dental health of the adult community. The results are of interest in presented in the report. We have, instead, concentrated on drawing together the main points and conclusions that have been reached.

Throughout the analysis of the results our attention has repeatedly heen drawn to the fast that dental treatment patterns affect the state of dental health for a very long period of time. This survey was carried out in 1968, (swesty years after the heginning of the National Health Service, Yet of all the people who were considered to the production of the people who were the National Frash Service. In the opportunity of conservative dentities under the National Frash Service.

It is easy to forget that doesn't health said lifetings as long as life itself, and lifet it of errain forms of restineties, who as extendees, we carried out among period out among more and the said of the said out among period out among period out among period out among the said out among the sai

In our terms of reference, one of the problems posed to us was to establish whether or not there was a regional variation in dental health, and if so to obtain some explanation for it.

One of the simplest indications of dental health is the proportion of people who have no natural teeth, this being the ultimate failure in preservation. In England and Wales as a whole the proportion of adults aged 16 or more who had no natural teeth was 368%. In London and the South East the proportion was 284%, while in the North the proportion was 45.5%.

These results alone show that something is drastically different in our survey regions. Is there some simple demographic characteristic that explains this regional difference? The results were analysed in terms of age, sex and household social class. Further variations were found to exist but none of them explained the regional variation.

Some of the differences found in the proportion of people who had no natural teeth, taking all these factors into account, were very dramatic indeed and served to emphasise the regional variation. For example, in England and Wales, in the age group 35-34 years, in household* social classes IV and V, 44:7% of adults had no natural teeth. The comparable figures for the North, and London and the South East were 57-6% and 23-3%, respectively. Why does such a large regional difference occur in similar age and social class groups?

Nor was the regional variation in total tooth loss confined to the older age groups. Even among adults aged 16-34, although very few were edentulous, the highest proportion of people with no natural teeth was to he found in the North.

Once people have lost their natural teeth it is now additionally and their natural teeth.

Once people have lost their natural teeth it is very difficult to find out the reasons and circumstances of the losses. However, those who still have some natural teeth must include people who will be the next to become celentulous. Who are they and are they distributed differently regionally?

The most useful group to study in this respect was those aged 16-34, since wen by this age a regional variation in the proportion who had suffered total totals loss was apparent. Also these people have had an opportunity to receive National Health Service treatment for a large part of their lives. They are also of special interest since the dental health of the future depends on the condition of the mouths of the young.

Initial investigation convinced us that there was not hasically a very great difference in the occurrence of decay in the different regions. Or, at least, there were other differences which were large enough to mask any variation in disease.

It did not appear to he disease that varied hut treatment. Dental treatment is the result of the interaction of two people, the patient and the dentist. It is complicated by the fact that a patient may be treated by many different dentists and he may also change his own dental attitudes during his lifetime and these will be reflected in his state of dental health.

No denist can treat a person who does not present himself for treatment. Once a person has persentable himself for treatment as private as the ultimate say in what treatment is provided. This is not to say that some positions to once a person has bened the treatment thy desire, but ultimately the type of treatment given has been been treatment given bened to be a provided to the second this decision by his previous record of dental attendance. This mouth has been very neglected in my not be possible to carry could treatment evident in the contract of the possible to carry could treatment of the patients' returned and the patient's treatment about his provided of the patient's treatment about his person and the patient's treatment about his person and the patient's treatment about his person and the patient's trave denial heavy for the patient's travel and the patient's travel and the patient and the patient's travel and the patient travel and the patient and the p

One factor which must he kept in mind, when investigating the variations in dental attitudes, behaviour and treatment received, is that although some people obtained conservative dental treatment hefore the provisions of the National Health Service many people did not. This seattle in different patterns with the provision of th

In fact the survey results show that even among those aged 16-34 who have had the opportunity of National Health Service treatment for a large part of their lives, there are still two very different patterns of attendance and behaviour. But this is the first generation who have bad the opportunity of conservative treatment, without economic barriers, for most of their lives, so it would be surprising if the patterns of behaviour of the community could be wholly chansed as quickly as that.

Two major attendance groups were found to exist, those who said that they attended the dentite for a regular check-up and those who said that they did not go for a obsel-up but only attended when they were baving trouble with their tetch. Among the age-group 16-34, 45-35, said they stateded for a regular check-up and 41-375, said they care baving trouble with their este. Thus there we about equal numbers in each group complete with their este. Thus there we about equal numbers in each group to the said of the said of the said that they have been also the said the said that they have been also which clean attendance natures are changing.

Doubless changes are taking place, but what are the sources of encouragement for people to change from being dentally unaware to being dentally conscious? Dentistry over the last twenty years, both in general practice and in the school service, has suffered from lack of resources. Consequently, the services have not always been as conducive as they might have been to changing the the attitudes of those whose only expectation of dentistry is the relief of pain.

The School Dental Service, over this period, has been grossly understaffed and has had to decide bow best to deploy its services. Restrictions in services bave been directed at pursuing a policy of relief of pain, especially in children who do not look after their teeth.

Although policies change with time, School Dental Service policies in the 1900, affected children who were then 10-16. These propels are now in their thirties and forties. Obviously policies which entrenched themselves at that time affected treatment for many years and will have influenced the dental health of people much younger than this also. We quote from "The Health of the School Child" which reports periodically on the state of the School Dental

The Health of the School Child 1939-45.

Wartime modifications:-

"... the treatment of children whose parents had failed to take regular advantage of past opportunities for treatment, should as a rule, be limited to extractions—allowance being made for those parents who showed a genuine change of attitude towards dental treatment..."

"... teeth which are technically saveable should not as a rule be filled where there is evidence of persistent neglect of oral hygiene on the part of the child ... "

The Health of the School Child 1954-5.

**. in a number of the earlier reports in this stries, emphasis has been laid not be importance or fanking the bettu cert of a limited reshoot clount staff and the aebievements of certain authorities make it clear that, with the right cutolock, a detail offere can provide saintherory standards of redous from detail trouble, for appreciately more than 3,000 children; the accust number of the comparison of the contract of restriction, and judicious discrimination by dental officers in their offers of conservative renormant has consistently been advocated by the Ministry.

Although adequate conservation of children's teeth is regarded as the ballmark of a fully developed dental service, it should not be forgotten that the prevention and relief of pain and sepsis are of primary importance to the growing child."

From the survey results we found that in the age group 16-34 those who had bad treatment through the School Dental Service had on average two more teeth missing than those who had not. For a third of this age group their only experience of dentistry during their childhood was through the school system.

It is calamitous that such restrictions in services affect those who most need to be educated in dental care, not only for their own welfare but also for the dental welfare of future generations.

There are also circumstances in the general dental services which tend to perpetuate the differences between regular dental attenders and irregular attenders.

Foremost in this is the provision in the regulations for 'emergency treatment of casual patients.'

Handhook for General Dental Practitioners, National Health Service, Ministry of Health, revised to lat March, 1966

"Treatment of casual patients.

Practitioners may accept casual patients for the following items of treatment only, without incurring the obligation to carry out all necessary treatment.

(a) Denture repairs...

(b) The following items of emergency treatment.

(i) Not more than two extractions (ii) . . . anaesthetic

(iii) ... dressing teeth (iv) ... arrest of haemorrhage

(v) ... arrest of haemorrhage (v) ... radiological examination (vi) ... domiciliary visits ..."

There is a financial disincentive to spending time persuading people to change beir dental attitudes when dentities are paid by time of treatment and dental beath education is not an item specified for payment. It could obviously take a very long time to persuade someone who had never bad a filling to be bave one. What is more there is no absolute guarantee of success either on that occasion or for future treatment.

Such dentist-patient problems must be particularly acute in parts of the country where the population per dentist rate is nearly twice as high as in other areas.

We investigated whether there were any regional variations in the proportion of people in each of the major attendance patterns. Adults age of 6-5 in In Andon and the South East were more disposed towards regular attendance. Those in the North were a little more disposed towards regular attendance, but the differences were not large. The treatment received by people in the two attendance patterns was, bowever, vastly different. The regular attenders but large masters of filled (otherwise sound) teeth. This was so in all the regions, atthough numbers of filled (otherwise sound) teeth. East tended to have a few more filled to the regions atthough the control of the regions atthough the regions attended to t

The level of conservative treatment among irregular attenders was quite different. They had very few teeft that were filled (otherwise sound). Not only was there this hig difference hetween the two major attendance patterns hut in addition the treatment received hy those who only attend irregularly was different receionally.

Among irregular attenders aged 16-34 in London and the South East, 1 in 10 had no teeth at all which were filled (otherwise sound). In regions other than London and the South East as many as 4 in 10 of the irregular attenders had no teeth at all which were filled (otherwise sound). The comparable proportion among regular attenders, in all regions, was of the order of 1 in 100.

Very few people indeed have no decay (3 in 1,000), consequently very few people can inflor to have no restorative treatment. If they are point to retain their natural texts for easy length of time. If decayot texts are not illud them the result in the re

Without conducting a longitudinal study, which could then record the reasons for coth loads at the time of extraordin, it is very difficult to assess the part played in cost host by gam disease. The presence of decay occurs, on the part played in cost host by gam disease. The presence of decay occurs, on the conduction of the part of the part of the part of the part of the conduction, and the part of the part of the part of the part of the However, decay and gam disease are not the only influences affecting extraction. There is also the question of the visibility of the remaining text, and whether dentures are required. Since the development of gam disease and the provision denture are required. Since the development of gam disease and the provision retroprectively, to pagarate the importance of risks in the presence of tools in low.

The main transitional stage from relying entirely on natural teeth to becoming destinations it to provision of dentures to be worn in conjunction with natural teeth. We asked all those people who had become electricious within the last twenty years whether they had had dentures prior to long the last of their natural teeth. Half of them had not. Among those who had not, half had had over 20 teeth extracted to become denturisus. Thus, of all those who because of the province of the contraction of the province of the province of eleminous by losing more than 20 teeth and without ever having dentures to replace partial tools loss.

We asked people who still had some natural teeth and who had never had yedentizer shart they would prefer if they lost all their hack teeth; whether they would prefer to manage without false teeth, have false teeth just for the hack teeth or have the rest out and full false teeth provided. Large differences in attitudes occurred for the different attendance patterns. Among the irregular stitudes occurred for the different attendance patterns. Among the irregular preferred additional extraction and full dentures.

Similar large differences occurred with preferences for the extraction of an achine tooth as opposed to its being filled.

We examined in considerable detail the treatment received by adults aged 16-34 during their last course of treatment. Here again attendance pattern played a very large part, Among the regular attendens very few had any extrations. In contrast, among irregular attenders 69-3% had treatment which the contrast, among irregular attenders 69-3% had treatment which the contrast attender of the contrast of the contr

One very perplexing regional variation occurred among the regular attenders. The use of X-rays showed a large regional variation, at two different potential during the interview we asked about the use of X-rays. We asked percentile whether the person had ever held an X-ray, we also asked perceically whether the person had ever held an X-ray varied between 50-9%; in the North, 5-65-5%; in Wales and the South West, 57-1% in the Midlands and East Anglis, to 8-69% in London and the South East.

Similarly with respect to the last course of treatment the preportion of regular attenders who had X-rays was very much higher in Lordon and the South East. The use of X-rays among irregular attenders was at a much lower evel but showed similar regional variations. Does this mean that fewer dentists, outside London and the South East, have X-ray machines or that Fewer X-rays are taken outside Lordon and the South East? Our liquity cannot answer this ser taken outside Lordon and the South East? Our liquity cannot answer this

We examined the relationship between childhood dental streeduces enterm and adult attendance pattern for those again of LSA. This showed than a change of habit from irregular attendance as a child to regular attendance in adult in can result in a considerable amount of a uncestful restorable void. and that although bloos who have attended regularly all their lives have a somewhat although bloos who have attended regularly all their lives have a somewhat although bloos who have attended regularly all their lives have a somewhat although those who have attended regularly all their lives have a somewhat dame are restorated on a very reasonable level of dental liters. In Presults allo show that, once converted to regular attendance, their attitudes towards fillings are appopaled to extracted sections that in the who have have been regular as opposated to extracted section similar to these who have always been regular

For those who have slipped from regular attendance as a child to irregular attendance as an adult the dental health pattern shows signs of the early influences, for example, this group of people have more teeth that are filled (otherwise sound) and fewer that are missing than those who have been irregular attenders all their lives.

The group with the worst prognosis includes those who have had a pattern of irregular attendance all their lives. Even though in this analysis we were concerned with adults aged 16–34, a very large proportion (over a third) had no teeth at all that were filled (otherwise sound).

The two major attendance patterns, poing for a regular check up or going only when having routed with the techt, reveal used differences in natitudes, behaviour and treatment that we have made a rough estimate of the difference in work fined on a destinate from one regular compared to one irregular attender. We estimated that a regular attender with natural tent provides a work it and in section of the compared to not irregular attender. The necessary that the compared to the provider a work it and in regular attender. Then every time an irregular attender to death of the compared to the compared to

There is obviously a limit to the amount of work one dentist can do and conceputelly there is a limit to the number of conversions to regular attendance the can cope with. Taking into account the proportion of regular attendance he can cope with. Taking into account the proportion of regular attenders in the different regions, and the variations in population per dentist in the different regions it would appear that throughout the country the number of regular attenders me dentist is more or less constant.

Thus the relatively greater number of dentists in London and the South East is balanced by the higher proportion of regular attenders. Conversely, the relatively smaller number of dentists in the North is counterbalanced by a smaller proportion of regular attenders.

It would therefore seem that, given the status quo, as regards the level of disease, the number of dentists that are required depends on the proportion of people that can ultimately be persuaded to become regular attenders. Conversely, it would seem that given a certain number of dentists only a certain level of regular attendance can be achieved.

Even in London and the South East, which has the highest proportion of regular attenders with natural teeth, it is unlikely that the limit of regular attendance has been reached. Until this point is reached the area will be able to continue absorbing more dentists, given the present level of productivity.

Elsewhere in the country, however, so long as the distribution of dentists remains uneven there is likely to remain a regional difference in regular attendance and consequently a regional difference in dental health.

There are thus two problems, firstly how to increase the efficient use of and the supply of dental manpower, and secondly how to distribute dental resources which are likely to remain scarce for some considerable time.



APPENDIX A

PEOPLE WHO WERE INTERVIEWED AND NOT EXAMINED

Much of the analysis in this report has depended on information obtained from the detail ocasimistion. Concequently people who were interelvened last not examined have largely been excluded, in this section we look specified with group to establish whether their channels of the contractions been examined. It should be noted at this point that we can only do this comparative analysis for non-response from the examination stage of the laquisty. For the roat of our non-response in a people who were not attervised, we have no other owners and the contractive of the contractive co

There were 274 people who gave only an interview. This is small in relation to the 2,658 who agreed to hoth an interview and examination. Thus make the distributions for the examined group would have to be very large indeed to total interviewed sample. That is to say, only large differences could make the cannined group underpet of the total interviewed sample. That is to say, only large differences could make the examined group on or representative of the total sample interviewed.

Table A(i) shows the general characteristics of the two groups, irrespective of dental status. Subsequently we divide them into people with and without natural teeth, and compare them separately on that hasis.

From Table A(I), it can be seen that there was a slightly higher proportion of educations people in the non-examined group. Freumably the value of the detail canamination may have been into obvious to people without natural tech. The difference in the Table of the second proposed to the start of tech. The difference in the second proposed to the second proposed to

It seemed possible that an ungleasant dental experience as a child or an adult night have discouraged informants from taking part in the examination. However, the results show the reverse. A higher proportion of the people who cooperated mentioned an unpleasant experience. Perhaps they welcomed a further opportunity to talk shout it. It is interesting to an examination of the components of the components

TABLE A(i)

Characteristics	People who were interviewed and examined	People who were interviewed but not examined	All people who were interviewed
Dental Status	%	%	%
Those with some natural teeth Those with no natural teeth	63-7 36-3	58-4 41-6	63-2 36-8
	100-0	100-0	100-0
Region	%	%	%
The North Wales and the South West Midlands and East Anglia London and the South East	29-8 20-9 14-3 35-0	25-6 26-6 19-0 28-8	29-4 21-5 14-7 34-4
	100-0	100-0	100-0
Sex	%	%	%
Male Female	48-0 52-0	39-1 60-9	47-1 52-9
	100-0	100-0	100-0
Age 16-24 25-36 35-44 45-56 35-64 65-74 75 or more	% 140 180 19:3 16:1 16:3 11:4 49	7.7 13-5 13-1 17-5 22-3 14-6 11-3	% 13.5 17.5 18.8 16.2 16.8 11.7 5.5
	%	%	%
Childhood Experience Unpleasant experience when a child No unpleasant experience when	247	19-5	24-3
a child Did not go to dentist when a	59-4	56-8	59-1
child	15-9	23-7	16-6
	100-0	100-0	100-0
Adult* Experience Unpleasant experience as an	%	%	%
ndult No unpleasant experience as an	28-8	17-8	27-7
adult Has not been to the dentist as	69-5	80-7	70-6
an adult	1.7	1.5	1.7
	100-0	100-0	100-0
Base	2658	274	2932

*Adult taken as at 16 years of age or later.

TABLE A(ii)

People with some attend to the content of the con				
Camer field looks in neutral (693) (442) (100)	People with some natural teeth	interviewed and	interviewed but	All people who were interviewed
Section Sect	Can feel holes in natural teeth	313	35.8	32.2
Game bleed 20 2 3 5 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Cannot feel holes in natural teeth	68-1	64-2	67-8
Comm to the theat of the state		100-0	100-0	100-0
Fluck tooth schilar, woods	Gums bleed Gums do not bleed		30 0 70-0	38.5 61.5
If Such to shahile, woods		100-0	100-0	100-0
Want 160d		%	%	%
District Content of the content of	Want it filled Want it out	42.7	36.6	43-8
Present on nationate of the immunities of best on nationate of the immunities of best ones and in the immunities of bes	Olistia	100-0	100-0	100-0
manufact of such needlars Notes 104 105 105 106 107 107 108 108 108 108 108 108 108 108 108 108		%	%	%
Cost to the details Cost	number of teeth seeding attention:— None 1 2 3 or more	16-8 14-6 19-5 8-3	14-5 13-2 28-9 10-5	16-6 14-5 20-3 8-5 100-0
For regards clack For regards clack When having routhlet ### 6 64 ### 1000 ### 10	Goss to the deptist :	7.0		
Said has bold a filling	For regular check For occasional check	11.0	8.9	10-8
Mode and Mark American 150 275 161 162 162 163 164 163 164 163 164 163 164 163 164 163		100-0	100-0	100-0
Hor long since list visit to %	Said has had a filling Said has never had a filling	85-0 15-0	27-3	16-1
How long since last visit to		100-0	100-0	1000
Less than 6 months 38-3 24-7 27-6 6 months less than 1 year 22-1 26-1 27-6 1 year less than 3 years 19-0 24-0 21-2 21-3 21-	How long since last visit to	%	%	%
6 months (es than 1 year 1 1907 24-0 19-4 19-4 19-4 19-4 19-4 19-4 19-4 19-4	Less than 6 months		24-7	
3 years and over 20 6 31-2 21-50 100-0 100-0 100-0 100-0	1 year less than 3 years	19-0	24-0	19.4
1000 1000 1984	3 years and over			
Base 1694 160 1854				
	Base	1694	160	1854

Table A(ii) refers to people with some natural tenth. In this dental category, L694 people were cannized and 100 were not. In general, the non-examined group exhibit less concern for dental care. With regard to dental visits, 66-4%, only went when they had frouble with their tenth; and 31-2%, and not been for which were considered to the second of th

On their own estimates, they had more teeth needing attention, and there was a greater frequency of hierding gums and holes in their teeth

Thus according to interview data, people who were not examined tended to he less dentally conscious and less dentally fit. Both these characteristics might encourage a refusal to have an examination, on a hasis of disinterest, sensitivity about their dental habits and possible pain.

TABLE A(III)

People with no natural teeth	People who were interviewed and examined	People who were interviewed but not examined	All people who were interviewed
If seen without dentures by family:— Worries very much Worries to some extent Does not worry	%	%	%
	11-6	17-0	12-1
	18-0	16-0	17-7
	70-4	67-0	70-2
	100-0	100-0	100-0
Age of present dectures:— 5 years or less More than 5 up to and including 10 years More than 10 up to and including 20 years More than 20 years	%	%	%
	37-3	34-3	37-0
	23-2	16-2	22-5
	25-2	28-2	25-5
	14-3	21-2	15-0
Said had natural teeth filled	42'8	29.2	41.4
Said did not have natural teeth	57.2	70.8	58-6
filled	100-0	100.0	100-0
Basc	964	114	1078

We now look at people without natural teeth. There were 964 who were both interviewed and examined, and 114 who were interviewed only.

From Table A(iii) there is again evidence of less concern for dental health in the non-examined group. Just over 70% said they had never had a filling compared with 57-2% of those who were examined. Also, their dentures tending the first open for the same of the first open for t

to be older—21.2% had worn the same dentures for over 20 years. The corresponding proportion for the examined group was 14.3%.

One interesting point is their attitude to heing seen by their family without dentures. In the non-examined group 17-0% found this very worrying, compared with 11-6% in the other group. This obviously could have influenced some people in their decision not to have an examination.

Considering the non-examined people as a whole, there are certainly some differences hewenethern and the people who were examined. In size, however, the non-examined group is only ahout a teath of all people interviewed. Conequently the differences do not have a very large effect on the total interviewed sample, whose characteristics rarely differed as much as a per cent from people who were both interviewed and certained.

The analysis in this section shows that the absence of people who were not examined does not produce any serious alteration in the conclusions. It tends to suggest, however, that the situation may he slightly worse dentally than was indicated by our results.

As we have mentioned already, it is not possible to make a similar analysis of the other part of our non-exposuse i.e. people who were not interviewed. However, it is likely that the loss at the interview stage would also have been greater among the old, the less dentally fix and the less dentally sware. This is another factor which suggests that dental health may be a little worse than our figures have show.

APPENDIX B

THE POSTAL INQUIRY

Two months after the completion of fieldwork, we conducted a small postal inquiry to find out if participation in the Dental Health Survey had made any impact on dental attendance.

At the end of the examination, we had given each informant a leaflet from the Chief Dental Officer at the Ministry of Health. In this he recommended that people who had not been to the dentist for a year or more should make an appointment as soon as possible. Edentulous persons were not included in this recommendation since they do not need such regular attention.

Apart from the leaflet no attempt at dental education was made. In the course of the interview, however, informants were required to think carefully about their own dental health and history, and to provide a personal assessment of their treatment needs. We were interested to see whether this, combined with the leaflet and examination, had encouraged them to attend a dentist.

A random sample of 100 was drawn from the zerow which satisfied all the

A random sample of too was drawn from the group that following conditions.

(a) The informants had been interviewed, examined and had received a leaflet.

(a) The informants had been interviewed, examined and had received a leaner.

(b) They had some or all of their natural teeth i.e. partially dentured persons were included.

(c) They said they had not been to a dentist for a year or more.

A letter with a self-completion form attached was sent to the individuals selected. They were adated to any whether they had made an appointment to see a deniest since the dennal examination in their bone. After one reminder, the final response was for out of the 100 letters as deniest. Given the enabler of the inquity, it would seen likely that the 14 people who did not reply, had also not made an appointment and 5% had if bower outder that 15% of our sample had not made an appointment and 5% had if bowers the consideration of the contraction of the 15% of the 15%

We felt that a moderately long interview, followed by an examination by a dentist and a leaflet recommending regular dental attendance, allowed for more direct influence on dental habits than is normally possible with adult health education programmes.

We were fairly surprised that as many as 90% of the people to whom the leaflet referred, had not made an appointment to see a dentist. This suggests that in any policy to encourage regular dental attendance among adults, the encouragement would have to be very positive indeed.



APPENDIX C

THE DISTRIBUTION OF THE NUMBER OF SOUND, DECAYED AND TREATED TEETH

In section 6.1 we looked at the average number of teeth that are sound, decayed or have heen treated. Here we examine the distribution of the number of sound, decayed and treated teeth. This gives some indication of the sort or ranges that lie helpind the averages.

We have already seen that some of the conditions occur more frequently than obtain. For example, crowned and hindge tech exist very infrequently, (107 crowns and 22 bridges among the \$4,000 possible tooth positions which existed among adults with some namal tech list. Since they play so small a part, they have been excluded from this presentation of the distributions of the various conditions. In adults, they have been excluded from this presentation of the distributions of the various conditions. In adults, then the presentation of the distributions of the various conditions. In adults, then grouped together whether or not they have been previously treated and whether or not they have been previously treated and whether or not they are restorable.

At this point we must comment more fully on the problems associated with the fact that people with some natural teeth are only a sub-group of the population, as a large number of people have no natural teeth at all.

For some analyses it is very important to compare people who are in a similar condition with regard to their natural teeth, and who therefore have similar default expectations. For example, from Tables (IQ)-C(III) we cause that for people of all ages with some natural teeth, 47%, but it for more teeth that were filled (otherwise sound). For people and 16-3% and 18-3% and 18-3% of natural teeth varies for different age groups.

For other analysis, however, especially those involving estimates, one cannot currient the analysis to those in common circumstances. For example, although we know that 4-7% of people with some natural texts have 18 for more texts that are filled otherwise sounds, this finger aends to be adjusted for the fact that only 63-3% of the total population had some natural even such as the condition of the condition of

$$\frac{4.7 \times 63.3\%}{100.0} = 3.0\%$$

Although comparisons are host made heivesen people who are in a similar dental state, population estimates must include all popel. It is therefore of paramount importance to understand clearly whether the figures relates to the whole population or only to as sub-group. In Tables (10)—(Cili) the figures are presented in two forms, firstly on the basis or in. The results are given for adults and 16–34, adults ared 35 and over and adults of all controls. Table (CJ) is concerned with shales ages 16-24. In the first column, we consider for tent that were room dual matured among the adults ages 16-34 with some natural tenth. Only 42% of the contract tenth and only 23% had 2 or more tenth that were sound and untreated. People who were calentalous could not, by definition, have any cound and untreated tenth. Therefore, when the distribution is shown for all offills aged 16-34, in the second column, the proportion of people who have no mature and an untreated are from 10-2% to 45%. The average means are considered and untreated the richer from 10-2% to 45%. The average which was not to the contract and the contract and untreated that richer from 10-2% to 45%. The average was not to the contract and t

The distribution of the manner of filled (otherwise sound) such is somewhat different. There is a firly high or of filled (otherwise sound) such is somewhat distribution tails off at 18 or more texth. It is of interest to most incent, and the distribution tails off at 18 or more texth. It is of interest to more texth and the suppose of a subject of the suppose of a subject to the suppose of th

The distribution of the number of decayed such had a smaller range than the other conditions. Among suchs and 16–14 the maximum summer of decayed teeth was in the range 3 to 17. Nearly four out of every ica adults aged 16–34 with some natural teeth had no decay at all. Three out of every tean had 10 to 2 teeth with docus, we now of early ten had a 10-3 decayed teeth and one out of every tean had the early ten had a 10-3 teeth with decay, we now of early first had between the control of the early ten had a 10-3 teeth with the control of the early ten had a 10-3 teeth with the control of the early ten had a 10-3 teeth with the control of the early ten had a 10-3 teeth early ten had 10-3 ten had 1

Only three people in every hundred who had some natural texth and who were in the 16-48 age group had no text mining. Two in every hundred had more than 20 texth mining, and four in every hundred had 15-20 texth mining. The most frequent range of tood hos was 3-5 texth mining, an 37 people out the contract of the second of the second results of the second text of the When the distribution is reasonable set had the smaller of texth mining. When the distribution is reasonable to the second text of the second text of the When the distribution is reasonable to the second text of the second when the distribution is reasonable to the second text of the second when the distribution is reasonable to the second text of the second when the distribution is reasonable to the second text of the second when the second text of the se

The averages add up to 31.9 due to the exclusion of teeth that were crowned or hridged, which account for the other 0.1.

Table C(ii) is of a similar form as table C(i), and shows the distributions of the various tooth conditions for adults aged 35 and over. In this age group the proportion of people who were celentuous was high (514-9%), and therefore recalculating the distributions for all people aged 35 and over has greater consequence than it does in table C(i).

The distribution of the different tooth conditions for the two age groups can be compared from tables C(i) and C(ii). For adults with some natural teeth, the distributions of scoud and untreated teeth, show that only 47%, of adults aged 16-34 had less than 6 scoud and untreated teeth services 178% of adults aged 33 and over had less than 6 steed at 188 and 188 a

On comparing the distribution of teeth that were filled (otherwise tourse) for both seg groups, live again found that the proportion of adults with some form that the proportion of adults with some control teeth, is greater for resultant and the state of filled (otherwise cound) teeth, is greater for control teeth of the control teeth, is greater for the cittimition was recalculated to include all adults aged 35 or more, it was again dominated by the decentrolous, who have no fillings. The average number of teeth that were filled (otherwise sound) for adults aged 35 and over with some natural teeth was 24, but was only 25 (or all people of that age.)

For people with some natural teeth, the overall distribution of the number of decayed teeth is remarkably similar among people aged 16–34 and 35 and over, although the latter group had a few instances of a greater number of decayed teeth. With decay, as with the other took conditions, the distribution was dominated by the existence of teeth took conditions, the distribution was dominated by the content of teeth that were decayed for adults aged 35 and over with some natural teeth was 22, but was only 16 for all people of that age.

With the reduction in the number of sound teeth, and in the number of filled columvise sound) teeth mongs adults aged 33 and over as compared with adults aged 31 and over as compared with adults aged 32 and 32 an

Table C(i)

	Distribu	tion of th	e major tec	th condit	ions for adi	ilts aged 1	6-34						
Number of		England and Wales adults aged 16-34											
teeth in each condition	Sound and Uncreated		(adservi	Filed (adserwise sound)		Decayed		rieg					
	Adults with some natural teeth	All	Adults with some natural seeth	Adidis	Adults with some natural sooth	All Adults	A-failts with some patural seeth	All					
None 1-2 3-5 6-8 9-11 12-14 15-17 15-20 21-23 24-26 27 or more	02 09 34 96 142 227 170 148 102 23	43° 09 30 92 135 217 161 161 98 22	151 92 103 150 150 179 92 34 103 101	55 94 94 154 155 171 185 52 12 01	75 37-5 39-0 29-5 7-6 26 10-7 	46 2* 28.7 19.6 7.3 2.5 10 0.7 	50 108 178 27-1 107 45 2-3 2-1 06 09 0-4	3/1 30-3 35-5 23-9 10-2 4-3 2-2 2-0 0-6 0-9 4-7					
Base	816	-	816	-	816	_	816						
		140		9.4	2/2	2:1	6-4	7-5					

*Includes 4-3% who were edentations.

TABLE Cii)

	England and Wales-edults aged 35 and over										
Number of teeth in each condition	Sound and Untreased		(otherwi	Filled (otherwise sound)		Decayed		sing			
	Adults with some matural touth	All Adults	Adults with nome neteral teeth	AE Adults	Adults with some natural teeth	All Adults	Adults with some natural teeth	All			
None 1-2 3-5 6-3 9-11 12-14 15-17 18-30 21-21 24-25 27 or more	20 32 126 203 181 179 11-5 77 466 1-3 0 8	524* 16 61 99 88 87 36 27 22 06 04	20 E 14 E 15 3 13 4 11 4 11 4 22 0 7 	650 722 64 65 53 44 26 20 03	353 331 20-6 4-8 2-5 1-3 0-9 0-1	55 64 16-1 100 3-3 1-2 0-6 0-1 0-1	08 10 11-2 16-5 16-4 15-9 5-9 5-3 9-7 3-9	64 09 54 80 80 743 26 46 47 533			
Bass	876	-	575	_	878	-	878				
Average	10.9	50	54	2-5	2:2	1-0	13.4	23-6			

*Includes 51-4% who were edeno TABLE COD Distribution of the mai ii) icions for adults of all ages

	England and Water—adults of all ages									
Number of sorth in each condition	Sound and Untrinted		(otherwa	Filled (otherwise sound)		Decayed		sing		
	Adults with some neores teeth	All Adults	Adults with some statural south	All Aduks	Adults with roose testical trest	All	Adelts with some necural secth	All		
Name 1-2 3-5 6-8 9-11 12-16 15-17 18-20 21-21 24-26 27 or more	1000 1000	374* 1-3 2-1 20-2 12-7 20-2 12-7 20-3 2-1 4-4 1-9 0-9	22.6 12.1 12.9 14.2 13.9 13.1 7.2 3.7 1.0 0.1	557* 7-5 7-5 7-5 9-0 8-4 4-6 2-3 0-1	3673 3176 2005 702 2005 102 0 4 0 2 0 1	5674 200 120 4-3 1-6 0 3 0 1 0 1 	5/ 1-9 5/2 23-9 23-6 13-6 13-6 15-7 3-8 3-7 3-8 3-7 3-8 3-7 3-8 3-7 3-7 3-8 3-7 3-7 3-8 3-7 3-7 3-8 3-7 3-7 3-8 3-7 3-7 3-7 3-8 3-7 3-7 3-7 3-7 3-7 3-7 3-7 3-7 3-7 3-7	100 0		
Bose	1694	-	1694		1694	-	1694	-		
Average	12-5	76	6.6	42	2-2	14	19-1	18-5		

number of missing teeth for adults aged 35 and over with some natural teeth,

was 13.4. This average went up to 23.4 missing teetb when the edentulous were included. The combined results of tables C(i) and C(ii) are presented in a similar way

in table C(iii), which shows the distribution for the tooth conditions for adults

of all ages

These distributions illustrate that very few people had anything like a perfect mouth. The vast majority of people with some natural teeth were somewhere between being perfectly dentally fit and grossly dentally unfit. This examination of the distributions of different tooth conditions has provided some indication of the variations that exist between the two age groups. The older age group is, bowever, very mixed as it contains ages ranging from the thirties to the eighties.

APPENDIX D

THE AVERAGE NUMBER OF TEETH IN EACH CONDITION

In section 6.1 in the main report we discussed the average number of teeth inch condition. This was presented for the two major age groups and all ages together. It is of interest to examine these averages in relation to other subgroups of the population. We, therefore, present, in the following tables, the average number of teeth in each condition for the following groups:—

- (i) England and Wales, those who go to the dentist for a regular check-up.

 (ii) England and Wales, those who go to the dentist when they are having
- trouble with their teeth.

 (iii) The North, those who go to the dentist for a regular check-up.
- (iii) The North, those who go to the dentist for a regular enterior (iv) The North, those who go to the dentist when they are having trouble
- with their teeth.

 (v) London and the South East, those who go to the dentist for a regular check-up.

 (vi) London and the South East, those who go to the dentist when they
- are having trouble with their teeth.

 (vii) England and Wales, male, by age.
- (viii) England and Wales, female, hy age.
- (ix) England and Wales, hoth sexes, hy age.
 (x) England and Wales, household social class I, II, and III non-manual.
- (xi) England and Wales, household social class III manual.
- (xii) England and Wales, household social class IV and V.
- (xiii) The North-household social class.
- (xiv) London and the South East-household social class.

(0 England and Wales—These who go to the doutist for a regular check-up.

	agular check-up	Adults of all ages, with some natural teeth	Male Female Both	-	74 80 78	32.0	389
Average number of tooth in each condition	dentist for a re	more, seeth	Both	2888	101 104	32-0	314
	ho go to the	aged 35 and once natural	Female	900	110	32.0	172
	s-Those wit	Adults with a	Male	2526	12%	32.0	142
	England and Wale	4, with soth	Both	551 641 641 641	212	32.0	366
	Englis	aged 16-34, no natural teed	Female	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	51 53	32.0	217
		Adults	Maje	55 00 00 00 00 00 00 00 00 00 00 00 00 0	212	32-0	149
		Tooth conditions		Sound and unitrasted Crowned or bridged Filliod, otherwise sound	restorable Not restorable Missing	Total	Вазе

(ii) England and Wales—Those who go to the dentist when they are having trouble with their tooth.

and in some of death in some committee

	r teeth.	, with	Both	13-4	1 %	90	1.9	27.6	32.0	817
	de with their	Adults of all ages, with some natural teeth	Female	12.6	125	6.5	1.7	13:3	32.0	342
Average manages or town in warm commons. England and Wales—Those who go to the dentist when they are having trouble with their tooth.		Adults	Male	13.9	3.0	9-0	2.0	25	32.0	475
Control Control	n they are h	more, tooth	Both	11.3	2.2	0.5	1.6	82	32.0	483
OR INVOICE IN	dentist who	Adults agod 35 and more, with some natural teeth	Female	10.9	18	60	2	16.6	32.0	700
Average manage of twen in the common	o go to the	Adults with 80	Male	11-6	35	9	1:3	147	32.0	276
Ave	Those wh	, with	Both	163	13	17	2.2	7.8	32.0	334
	and Wales	Adults agod 16-34, with some natural toth	Fomale	154	15	6.5	1.0	32	32.0	135
	England Adults		Male	17.0	15	99	2.4	201	32.0	199
		Tooth conditions		Personal and anticontend	Crowned or bridged	Filled, otherwise sound Filled and decayed	Decayed, not previously treated hut	Not restorable	Total	Base

(iii) The North-Those who go to the dentist for a regular check-up.

Adulta aged 16-54, with the constraint leith leith the constraint leith the constraint leith the constraint leith leith the constraint leith	Average number of teeth in each condition	The North-Those who go to the dentist for a regular check-up	Adults agod 35 a	Male Female Both Male Female	13.7 10.3 9.9 10.1 12.7 11.5 11.9 11.0 11.0 11.0 11.0 11.0 11.0 11.0	9-6 12-4 11-2 7-4 9-1	20 320 320 320 320 320 320	00
		-	Adults agod 16-3 some natural 1	\exists			-	-

(iv) The North-Those who go to the dentise when they are having trouble with their treefs.

the same and same of same by same constitution

	ch.	s, with	Both	13.8	853	2005 8005 8005	32.0	230	
	ith their too	Adults of all ages, with some natural toeth	Femile	12.4	173	223	32.0	88	
	g trouble w	Adults	Male	14-7	979	2.5 0-7 10-9	32.0	141	
Canal Course	ey are havin	more, tooth	Both	9-01	1.8	21 164 164	32-0	124	
Of Bowell als	lst when the	Adults agod 35 and more, with some natural tooth	Femsie	9-6	1.9	528	32.0	8	
Average number of town in case common	to the dent	Adults:	Male	114	118	222	32.0	11	
Ave	The North-Those who go to the destist when they are having trouble with their teeth	, with	Both	174	172	920	320	106	
	o North-T	Adults aged 16-34, with some natural teeth	Female	164	172	273	320	36	
	d.	Adults	Malo	17.9	125	225	32.0	R	
		Took outlies		Personal and Contraction	Crowned or bridged Filled, otherwise sound	Filled and decayed Decayed, not previously treated but restorable Not restorable	Missing	Base	

(v) London and the South East—These who go to the dentist for a regular elections.

	r check-up.	Adults of all ages, with some natural teeth	Female Both	11.3 0.1 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.1 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2		32.0 32.0	173 297
tion	London and the South East-Those who go to the dentist for a regular check-up,	Adults	Male	2000	222	32-0	124
Average number of teeth in each condition	the dentist	more, teeth	Both	2000	000	32.0	145
r of teeth ir	to app to	Adults aged 35 and more, with some natural teeth	Female	2000	5 5	32.0	80
arage numbe	East-Thos	Adults with a	Male	5225	222	32.0	59
ş	d the South	l, with seth	Both	2222	53	32-0	152
	London an	Adults aged 16-34, with some natural teeth	Female	25 26	212	32.0	93
		Adults	Male	2020	213	32.0	8
Took contition Took contition Consider the third of the contition of the contine conti						Base	

(vi) Loadon and the South East --Thore who go to the dentist when they are haring trouble with their teeth.

			Ave	rage number	Average number of teem in once contoured	ORGER COUNTY				
	London	and the South	b Bast—The	of other age	London and the South East—Those who go to the dentist when they are having trouble with their teeth.	when they as	c having tro	uble with the	air toeth.	
Tooth conditions	Adalts	Adults aged 16-34, with some natural teeth	the sta	Adults with s	Adults aged 35 and more, with some natural tooth	more, tooth	Adults	Adults of all ages, with some satural tooth	with sch	
	Male	Female	Both	Malo	Female	Both	Maño	Fomale	Both	
Sound and unitrated Crowned or bridged	15	±23	051	522	113	272	0.1	3.9	2222	
Filled and decayed Decayed not numbered treated but	3	0.0	0-1	0.7	1 :	50	6.3	3 :	8 3	
restorable Not restorable	982	282	285	222	153	148	1281	282	12.3	
Total	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	32.0	
Buse	- 89	2	103	103	8	193	162	134	296	

(vii) England and Wales-Male, by age

Treat conditions 16-24 Adds with once names from the condition 16-24 Adds with once names from the condition 16-24 Adds with once names from the condition 16-24 Adds with the condition 1	A Margan sambler of the site condition. Figure 1 and	All ages 13.3 6.1 6.7 6.7 6.7 6.7 8.9 9.8
--	---	---

			All ages	22 22 25 25 25 25 25 25 25 25 25 25 25 2	103	32-0	839
uo		9	55 and over	2132	0.6	32.0	109
oth in each conditi	nd Wales	tural tooth Femis	\$7.54	6.04 1.84 30	69 65 152	32.0	133
Average number of tooth in each condition	England and Walcz	Adults with some natural teeth Female	35 44	0.1 7.2 0.7	002	320	13
Ave		A	25-34	124	7.7	32.0	219
			16-24	192	252	32.0	200
			Tooth conditions	Sound and untreated Crowned or bridged Filled, otherwise sound nities and decreased	Decayed, not previously treated but restorable Not restorable	Total	Base

(ix) England and Wales-both sexes, by age.

		Footh conditions		164 Commission 164 Commission 164 Commission 164 Commission 164 Commission 174 Commi
Aw		Adv	25-34	32.0 445 445
rage number of t	England	Adults with some nad	35-44	13.5 6.7 6.7 10.4 10.4 32.0 32.0
Average number of teeth in each condition	England and Wales	satural tooth Both sexes	45-54	250 200 200 200 200 200 200 200 200 200
tion		exxe	55 and over	9.0 9.0 17.3 17.3 22.0
	1		All ages	200 100 100 100 100 100 100 100 100 100

(x) Engind and Wales—Household social class I, II and III non-manual.

_		Ave	rage mumber	Average number of seeth in each condition	each condit	ion		
	Engla	te'W best ber	les-Househ	England and Walco-Household social class I, II and III non-manual	188 I, II and	III non-ms	emasi	
Adults	Adults agod 16-34, with some natural teeth	t with	Adults with so	Adults aged 35 and more, with some natural tooth	more, toeth	Adults	Adults of all ages, with some natural tooth	, with eth
Male	Formule	Both	Malo	Female	Both	Male	Female	Both
144	13.3	13.9 10.6 10.6	2222	96	52450	124 02 8-1 0-8	11.3 9.6 0.7	0.3 0.3 0.4 0.7
222	222	223	000 11.85	13.0	000 124 124	222	905 925 925	200
32.0	32.0	32.0	32.0	32.0	32.0	32.0	32-0	32.0
130	141	291	176	180	356	326	321	78
				1				

(xt) England and Wake—Household social class III manual

		s, with	Both	7288	242	32.0	949
		Adults of all agos, with some natural toeth	Female	2-69	0.00	32.0	316
tion	II manual	Adult	Male	5.02.0 5.14.0	5555	32.0	330
each condi	ocial class)	more, Losth	Both	5248	13.7	32.0	314
Average number of teeth in each condition	England and Wates-Household social class III manual	Adalts aged 35 and more, with some natural tooth	Female	E 148	-04 -04	32.0	135
rage mambe	nd Wales-	Adalts with a	Malo	1040 7120	132	32.0	179
Ave	England a	h, with oth	Both	0 7 0 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	555	32.0	332
		Adults aged 16-34, with some some natural teeth	Female	4.08.0 8.12.0	222	32.0	181
		Adults	Male	ž 122	84.9	32-0	151
		Tooth conditions		Sound and untreated Comment or bridged Pilled, otherwise sound Filled and despote	restorable Not restorable Missing	Total	Baso

(xii) England and Walss-Household social class IV and V.

			Ave	rago numbe	Average number of teeth in each condition	each condi	ion		
			England a	nd Wales	England and Wales -Household social class IV and V	social dass	V and V		
Toods conditions	Adults	Adults aged 16-34, with some natural tooth	, with	Adults with \$	Adults aged 35 and more, with some natural teeth	more,	Adults	Adults of all ages, with some natural teeth	, with
TOOM COMMISSION	Maje	Femile	Both	Male	Female	Both	Male	Female	Both
Sound and unitreated Crowned or bidged Filled, otherwise sound	₹1%	946	151	81 183	2222	51 123	3 148	E 183	55 1 59
Filled and decayed Decayed, not previously treated but restorable Not restorable	187	525	222	222	288	21 60 64	223	42 <u>1</u>	958
	320	320	32.0	32.0	32.0	32.0	32.0	32.0	32.0
Base	13	83	156	88	79	172	166	162	328

(xiii) The North—Household social class

Average number of teeth in each condition	The North	Adults aged 16-34, with Adults aged 35 and more, Adults of all ages, with some natural teeth with some natural teeth some natural ceeth.	Household social class Household social class Household social class	Li II and III IV II II and III	Middle 141 154 173 104 105 116 114 114 115 115 115 115 115 115 115 115	014 016 119 011 146 22 112 116 118 019 019 119 119 119 119 119 119 119 119	-	63 106 48 93 71 27
		Tooth conditions			Sound and untreated Crowrand or bridged Filled, otherwise sound Filled and decayed Decayed, more recorded has	restorable Not restorable Missing	Total	Base

(xiv) London and the South East-Household social class

Averson momber of teeth in each condition

I	-		7	>	_				
	Ì	eth with	class	V bas	12.8	73	1882	320	130
		Adults of all ages, with some natural teeth	Household social class	manasal	124	2.4	525	32.0	240
	ľ	Adults	Hous	I, II and III non- manual	979	8.9	805 83	32.0	284
	ith East	more, toeth	class	IV and V	11.5	23	233	32.0	73
	London and the South East	Adults aged 35 and more, with some natural tooth	Household social class	mamual	413	:15	12.8	32.0	132
	London	Adults with so	Hons	I, II and III non- mental	10.3	10.5	2002	32.0	8
		, with	class	IV and V	14-6	123	282	32.0	42
		Adults aged 16-34, with some natural teeth	Household social class	manual	13.7	358	323	32.0	801
		Adults	Hous	I, II and III non- manual	13-4	523	222	32.0	128
		Tooth conditions			Sound and untreated	Crowned or bridged Filled, otherwise sound	Decayed, not proviously treated but restorable vol restorable	Total	Base



APPENDIX E

DETAILED FIGURES ON WHICH DIAGRAMS ARE BASED

The diagrams presented in figures 6.1 to 6.4 and 7.1 to 7.6 are based on the information contained in the following tables. With respect to gum conditions we present, in addition, the number of 'loose teeth' that were found to exist. This condition occurred too infrequently for a diagram to be usefully constructed.

BASIS FOR FIGURE 6.1 (i) Adults of all ages, with some natural teeth

See Table 6.9 in text

BASIS FOR FIGURE 6.1 (ii) Adults aged 16-34, with some natural teeth

						Adults	aged 16	-34, wi	Adults aged 16-34, with some natural teeth	natorn	I teeth					
								Oppe	Opper Jaw							
					Left							3	Right			
Condition of tooth		Molars		Prom	Premolars	Can		Inch	Incisors		Q-in	Prem	Premolars		Molars	
		7	ø	'n	4		7	-	-	7	5	4	'n	°	-	00
Sound and untreasted	30%	×2.	%. .	33%	35.7	×5.	×6.	%5 7:7	%	1,5	%£	36.6	×2.	%3	×2.	%; %;
Crowned or bridged	1	1	20	6	ē	ī	9.	52	5.	0.7	2	1	1	1	1	1
Filled, otherwise sound	22.4	545	44.6	37.4	38.4	10.0	161	18.3	17.0	20.1	10.8	38.0	39.8	47.2	999	18.3
Filled and decayed	1.7	4.2	4.8	2:2	52	13	1:8	99.	2.3	2-6	1.2	1.6	2.3	4.0	1.5	1.6
Decayed, not previously treated, but restorable	5.9	7:7	3.7	3.2	3.7	3.8	5.5	33	8.	1	4.0	3.6	3.6	2,	8.9	3
Not restorable	2.1	1.6	1.3	1.5	9.1	0.7	9.0	0.5	5	0.5	0.5	1.7	1.6	2-0	1.2	1.2
Missing	47.3	169	38.4	22.3	17.0	64	9.3	7.4	2.6	10.2	5.5	18.5	20.8	36.9	164	52.8
	100.0	1000	0.001	1000	100-0	1000	0.001	1000	100.0	100.0	1000	1000	100.0	100-0	1000	0.001
													ľ	١,	1	

BASIS FOR FIGURE 6-1 (ii) Adults aged 16-34, with some natural teeth

					Ì	Adults	Adults aged 16-34, with some natural teeth	-34, wit	h some	natura	I tooth					
								Lower Jaw	Jaw							
				12	Left							Right	26			
Condition of tooth	1	Molars		Premolars	olars	Q:ii		Incisors	530		g.8	Premolars	olars	^	Molars	
	00	-	9	S	4	3	2	-	-	73	m	4	s	9	1	00
County and sustained by	75	×.	25.	37.7	67:7	3,8	%8	25%	%%	%%	%5	×89	×5.	23%	10,7	18%
Crowned or bridged	1	1	10	2	i	1	-	1	ī	1	ı	ı	1	1	1.0	1
Cillad athermics county	22.1	49.9	36.6	34.9	21.2	3.1	2.8	5.6	2.8	2.5	99	22.5	34.2	38.0	47.9	228
Filled and decayed	2.0	15	4 00	2:2	1.5	20	10	10	0.1	0.5	1	1.0	2.1	3.6	0-9	2
Decayed, not previously treated,	3	27	2.1	4.4	2.5	9:1	2	0.7	8	22	2.1	69	3.4	5	7.5	4:7
Not restorable		2.1	2.3	0.7	29	1	1	i	ı	1	1	6-0	1.6	1.8	2.1	90
Missing	48.8	25.7	49.0	200	9-9	2	1.7	.00	1.2	1.2	1.7	6-9	17-6	49.6	26-0	51.7
	100-0	100-0		100-0 100-0	100-0	1000	100-0 100-0	1000	100-0	1000	100-0 100-0	0.001	100-0	1000	1000	1000
																ı

BASIS FOR FIGURE 6.1 (iii) Adults aged 35 or mere, with some natural seeth

					Ý	dolts ag	ed 35 c	Adults aged 35 or more, with some natural teeth	with se	nte na	ural tea	th.				
								Upp	Upper Jaw						ı	
					Left							2	Right			l
Condition of tooth		Molars		Pren	Premotars	g a		lno	Incisors		g a	_	Premotars	L	Molars	
	•	7	9	S	4	0	7	-	-	24	-	4	57	ø	-	00
Sound and untreated	% % %	×\$	% 4	% <u>;</u>	% <u>*</u>	×2.	35.6	×2	%5	% <u>4</u>	×25	20%	14.2	×5	×2	%2
Crowned or bridged	ı	1	0.0	0.5	0.4	0.5	8.0	12	21	90	0.3	0.5	0.2	1	1	0
Filled, otherwise sound	21.3	28.8	16.7	18.7	17.9	14.7	153	13.9	144	14.1	16.2	20.7	19.4	20.3	29.3	18.3
Filled and decayed	2.5	3.4	2.2	87	2.1	3.1	2.2	1.7	2.2	3.2	2.5	2.3	1.7	1.8	3.2	2.4
Decayed, not previously treated, but restorable	3.8	0.4	22	2.6	24	7.2	99	5.2	6-2	5.0	4-6	3.2	2.8	7	3.0	2.8
Not restorable	2.4	9·I	1-1	2.5	1.6	1.0	2	0.7	0.5	1.0	13	12	1.8	1.6	155	1
Missing	59.5		73.6	56.2	54.5	30.4	36.3	32.0	30.4	33.5	28.9	51.9	57.6	8.69	54.7	6.3
	100.0	1000	100-0	0001	100.0	0001	100.0	1000	0.001	0.001	1000	000	1000	0.001	1000	1000

BASIS FOR FIGURE 6-1 (iii) Adults aged 35 or meer, with some natural teeth

		_		_						_	_	_
				00	%8	1	7.22	2.1	2.8	2.4	61-0	100.0
			Molars	1	%S	0.1	56-9	2.7	21	1:8	59.5	100.0
			^	9	%4 8	0.5	14-1	2.2	4	Ξ	75.9	1000 100-0
		H.	plans	'n	27:1	1-0	24.3	2:2	3.8	3.1	39.4	100-0
-6		Right	Premolars	4	48.4	0-1	8	2	20	2.3	21.9	0.001
unal too			g si	3	%28	1	6.4	0.7	4.1	1.7	4-6	100-0
Adults aged 35 or more, with some natural touth				2	88.2	1	2.3	1.0	17	1.5	5.8	0001
with so	Jaw.		8		%8	-0	2	0.5	1	0-7	8.3	100.0
тоев,	Lower Jaw		Incisors	-	%6	-0	8-0	1	Ξ	60	0.3	1000
d 35 or				2	%5	1	2	2	1.9	11	6.5	100-0
alts age			Q ii	6	%S	1	9-9	1.0	3.6	2	40	1000
Pγ		left Fell	slars	4	×.5	0.1	24-4	1.9	4.4	1.6	19.5	100-0 100-0
		1	Premolars	S	7,5	0.5	24-1	2.2	3.3	*	41.3	
				9	%4	0.4	15.1	24	Ξ	7	75.5	1000
			Molars	-	×8	1	24.9	3.0	2.5	2.1	59.5	0.001
			_	00	×2	1	20.0	3.0	3.3	2.3	61.5	1000
			Condition of tooth		Sound and notreated	Crowned or bridged	Filled, otherwise sound	Filled and decayed	Decayed, not proviously treated, but restorable	Not restorable	Missing	

BASIS FOR FIGURE 6.2 () Those from Lendon and the South East who attend for a regular check-up, adults agod 16-34, with some natural teeth

		Those fi	om Lo	ndon ar.	d the S.	outh E.	sst who	attend for a n	for a ro	galar o	beck-up	, adults	page !	Those from London and the South East who attend for a regular check-up, adults aged 16-34, with some natural tech-	ith som	2
								Uppe	Upper Jaw							
				-	Left							Rie	Right			
Condition of tooth		Molars		Pren	Premolars	Çan Tue		Incisors	900		Can	Prem	Premolars		Molars	
	00	7	9	S	4	-	5	-	-	2	n	4	20	9	-	-
Sound and untreated	11.2	25%	%	74.6	% 4.	7,5	55%	%9	%S	%5	75,2	%	20%	×2	200	×2
Crowned or bridged	ŀ	I	0.7	0.7	0.7	ī	5.5	0.7	5.6	0.0	1	1	1	1	1	1
Pilled, otherwise sound	34.9	80.2	63.2	65.1	999	17:1	30.9	24.3	23.0	28.9	17.	8.5	8-19	71.0	82.9	25.7
Pilled and decayed	13	2.6	3.9	1.3	ī	13	2	2	5.6	3.3	3-3	2.0	20	20	3.3	1:3
Decayed, not previously treated, but restorable	0.7	0.7	- 1	0.7	I	2.6	2.0	52	0.7	0.7	26	2	2	0.7	2	0.7
Not restorable	1	0.7	I	0.7	ī	ī	ı	I	ī	I	1	0.7	ı	1	ī	1
Missing	51.9	10.5	29.6	28	14-5	53	9.0	99	7.2	7.2	4.6	=	14.5	25.0	10.5	1:19
	100.0	1000	0.001	0001	1000	1000	100-0	1000	1000	1000	0.001	1000	100-0	1000	1000	1000
													m	Base = 152	152	

BASIS FOR FIGURE 6.2 (i) Those from London and the South East who attend for a regular cheek-up, adults aged 16-34, with some natural teeth

	E	pose fre	m Lon	don an	d the Sc	outh Ea	Those from London and the South East who attend for a regular check-up, adults aged 16-34, with some natural seeth	attend for a r	or a reg	rolar ch	eck-up,	adults	aged 10	5-34, wi	th som	
								Lower Jaw	Jaw							
				1	Loft							Right	th.			
Condition of tooth	-	Molars		Premolars	slars	ij.ü		Incisors	ors		P. S.	Premolars	ofars		Molars	
	90	7	9	s	4	3	7	-	-	74	e	4	S	9	7	00
Sound and untreated	25%	×2	%6	23.0	55.9	252	%\$	מ	× ž	92.7	%2	×3,	250	%6	%8	25%
Crowned or bridged	1	1	1	1	I	1	1	1	ī	I	1	ī	ī	1	0.2	1
Filled, otherwise sound	38.2	77.7	\$65	5.95	34.9	4.6	3.3	5.6	5.6	20	5.3	38.8	58.5	55.3	75.6	40.1
Filled and decayed	0.7	3.3	53	0.7	2.6	0.7	0.7	1	1	0.7	1	1.3	0.7	5.6	1:3	1
Decayed, not previously trested, but restorable	2	2	0.7	0.1	2	2	0.7	0,	1	2.0	0.7	- 1	- 1	1	0.7	- 1
Not restorable	1	1	1	1	1	ì	ı	1	1	ī	1	1	ı	T	1	1
Missing	47.3	164	36.8	161	8.3	2	0.7	3	3.3	5.6	1.3	5.3	15-8	414	18.4	50.7
	100.0	1000	100-0 100-0	1000	100.0	1000	100-0 100-0 100-0 100-0 100-0 100-0	1000	100-0	100.0	100.0	1000	100-0	1000	0.001	100.0

BASIS FOR FIGURE 6-2

	н	Those from London and the South East who attood only when having trouble, adults agod 16-34, with some internal teeth.	on Ion	don an	d the S	outh E	ast who	attoor me nati	the attend only whatever named teeth.	then ha	ving to	suble, s	dults a	91 pod	34, wfe	4
								Uppe	Upper Jaw							ı
					Left							Rie	Right			
Condition of tooth		Molars		Premolars	ohus	Can		Inci	Incisors		Can	Premolurs	strate		Molars	
	00	-	0	2	4	-	7	-	-	7	-	4	'n	0	1	0
Sound and untreated	× ² 4	38%	25%	3%	% <u>4</u>	70.0	%89	%9	×.8	% <u>2</u>	7,92	%¢	320	%;;	25%	20%
Crowned or bridged	I	i	ı	1	1	1	0	1.0	1	ı	9	1	1	1	1	1
Filled, otherwise sound	14.6	43.7	41.8	28.2	26-2	8.7	5.4	11.7	12.6	14.6	11.7	26.2	29.1	40.8	48.5	14.6
Filled and decayed	1:0	5.9	5.8	1.0	1.0	1.9	2.9	3.9	2.9	1.9	ı	9	3.9	5.9	1.0	101
Decayed, not previously treated, but restorable	8.9	7.8	5.9	9:	40 80	2.9	6.9	2.9	1.9	5.9	1:0	2.9	3.9	3.9	11.7	2.9
Not restorable	2.9	4-9	6:1	2.9	2.9	6:1	1.9	0:	1.9	1.0	10	2.9	2.9	1.9	1.9	2
Missing	53.3	25.2	41.8	31.0	22.3	14.6	14-6	12.6	12.6	18.4	7.8	26-2	28.2	41.8	23.3	59.2
	1000	1000	1000	100.0	1000	100-0		100.0	1000 1000 1000 1000 1000 1000 1000	100.0	0001	100.0	000		0001	182

(ii) Those from London and the South East who attend only when hiving trouble, adults aged 16-34, with some natural testh. BASIS FOR FIGURE 6-2

	F	ouj asa	m Lon	lon and	the Sc	nuth Ea	Those from Lossdon and the South First who attend only when having trouble, adults aged 16-34, with some natural teeth.	the attend only who some natural teeth.	al toeth	en hav	ing tro	able, a	dults ag	-91 pa	14, with	_ [
		ŀ						Louer Jaw	FAVE							
				1	Loft			Г			ĺ	Right	ä		١	ĺ
Condition of tooth	-	Molars		Premolurs	shurs	ii.g		Incisors	2		ģ.a	Premolars	shars	_	Molars	
		-	v	'n	4	*	14	-	-	2	-	77	S	9	-	∞
Sound and untreated	3,52	10%	22	%88	25%	%8	27%	25%	%5	25%	% 20%	6.69	40.8	25%	12.6	23%
Comment or bridged	1	1	1	1	1	1	1	1	ī	ī	1	1	1	I	T	1
Citral otherwise sound	17.5	40-8	35.0	24:3	15.5	25	3.9	6:1	1.9	2.9	4.9	14.6	22.3	36.9	32.1	16.5
Filled, Other man account	19	3.9	2.9	5.9	1	1	1	1.0	1.0	1	1	1	1.9	4-9	8-7	1.0
Docayed, not previously treated,	177	8.7	3.0	10.7	4.9	1.0	-1	91	0:1	1.9	- 1	5.8	89	3.9	12.6	27
Not restorable	1.0	3.9	6.9	1.9	1	1	1	ī	1	1	1	1.9	4-9	2.9	2.9	10
Missing	47.6	320	49.4	21-4	8-9	5.9	3.9	3-9	9	1:0	4.9	7.8	23-3	43.6	31-1	52-4
	1000	100-0	1000	100-0	100-0 100-0	0-001	1000	0.001	100-0	0001	100-0	1000	0.001	1000	0.001	1000
													щ	Base - 103	103	

(iii) Those from the North who attend for a regular check-up, adults aged 16-34, with some natural teeth BASIS FOR FIGURE 62

		Those f	rom the	North	who at	ou pus	Those from the North who attend for a regular check-up, adults aged 16-34, with some natural teeth	far cho	k-up, s	dults a	90 pod	34, wid	omos r	nataral	teeth	
								Uppe	Upper Jaw							
				_	Left							Right	Right			
Condition of tooth		Motars		Prem	Premolars	Can-		Incisors	sons		Can	Prem	Premolars		Molars	
	00	1-	v	'n	4	~	2	-	-	2	9	4	S	o	7	000
Sound and untreated	%5	20%	%,	×82	%¥	75.5	% <u>e</u>	%5 4-6	70.2	55.5	76.1	×2,	3,6	25%	% \$	762
Crowned or bridged	1	1	m to	I	1	ī	2.4	3.6	1.2	9	1	ī	i	ı	ì	H
Filled, otherwise sound	31.0	72.6	45-1	44.0	46.4	15.5	26.2	22.6	19.0	29.8	13:1	800	50.0	59.4	6.89	23.8
Filled and decayed	2-4	6.0	4.8	2.4	3.6	3.6	24	2.4	3.6	ì	2.4	2.4	4.8	3.6	99	2.4
Decayed, not previously treated, but restorable	24	- 1	3.6	3.6	36	0.9	2	1	24	1.2	32	1.2	1.2	2.4	3.6	24
Not restorable	i	1	1	1	1	1	1.2	1	1	1	ı	1	I	1	1:2	1
Missing	47.5	14.3	42.9	20.2	11.9	2.4	6.4	0-9	3.6	9.8	8	11.9	20.2	31.0	15.5	58.3
	1000	100-0	1000	0.001	100-0	100.0	0.001 0.001	1000	1000	1000	1000	0.001	1000	100.0	1000	100.0
															1	

BASIS FOR FIGURE 6.2 (iii) Those from the North who attend for a regular check-up, adults agod 16-34, with some natural teeth

	Ĺ	Those from the North who attend for a regular check-up, adults aged 16-34, with some natural teeth	om the	North	who at	tend fo	e a regi	alar che	ck-up,	dults a	91 pagn	34, wlt	ф зошо	natura	teetb	
								Lower Jaw	Jaw							
				12	Left							Right	Ħ			
Condition of tooth	Ĺ	Molars		Premotars	state	g a		Incesors	SUO		P Se	Premolars	olars	^	Molars	
	*	7	9	'n	4	65	64	-	-	67	3	4	'n	9	2	00
Sound and untreated	%L 6:21	3%	22	31.0	25%	%	%§	35.2	952	95.2	%6 916	57.2	%%	×99	209	%₹
Crowned or bridged	1	1	1	1	1	1	1.2	1	ī	1	1	1	1	1	T	1
Filled, otherwise sound	27.4	65.5	89.89	45.1	34.5	4.8	9	4.8	6.5	3.6	0.9	34.5	464	51-1	654	20.2
Filled and decayed	12	\$	7:1	97	95	1:2	1	1	1	ī	1	1.2	3-6	0.9	9	2.4
Decayed, not previously treated, but restorable		1.2	1.2	3-6	12	1	-1	1	1	1.2	2.4	1	1	1	2.4	2
Not restorable	1	1	1	1	1	1	1	1	1	1	ī	1	1	1	1	1
Missing	53.5	21.4	39.3	15.5	7.1	1	2.4	1	1	1	1	7.1	13-1	36.9	20.2	61.9
	1000	1000	0.001	100-0 100-0	100-0	1000		0.001 0.001	1000	100-0 100-0		100.0	1000	1000	1000	90

BASIS FOR FIGURE 6.2 (iv) These from the North who attend only when having trouble, adults aged 16-34, with some natural teeth

	-	Those from the North who attend only when having trouble, adults aged 16-34, with some natural teeth	om the	North	who at	end on	ly when	having	trompo	, adult	aged a	6-34,1	vith soc	to natu	nal toed	_
								Uppe	Upper Jaw							
					Left			Γ				, R	Right			
Condition of tooth		Molars		Pren	Premolars	Can		Incisors	sons		- Gri	Prem	Premolars		Molars	
	100	-	ø	'n	4	-	23	-	-	64	9	4	2	o	7	00
Sound and unfreated	25.	30.3	12%	30%	ર્જે	87.8	×\$	1,5	75%	%	×2	%2	%2 4	×2	26.4	35%
Crowned or bridged	i	I	1	ī	ī	ī	1	I	6.0	1		1	1	ī	1	1
Filled, otherwise sound	12.3	19.8	21.7	14.2	15:1	60	4.7	5.7	5:7	5.7	1.9	160	17.9	20.8	29-3	23
Pilled and decayed	I	7.5	7.5	1	ī	60	0.9	6-0	1.9	4-7	i	60	6.0	8.5	1.9	2.8
Decayed, not previously treated, but restorable	16.0	17.9	10.4	2	9.4	2.8	14.2	4.7	80	9.9	22	7.5	8.8	8.5	22.6	104
Not restorable	1.9	2.8	1.9	1.9	2.8	60	ı	1	1	1	1	2.8	2.8	3.8	1.9	6-0
Missing	42.4	21.7	46.2	23.6	22-6	9-9	14-2	9.4	10-4	12.3	22	21.7	24.5	45.2	17.9	45.3
	1000	100-0	0.001	100-0	1000	1000	1000	0.001	0001	1000	1000	1000	0001	1000	1000	1000
											1					

BASIS FOR FIGURE 6.2 (iv) Those from the North who attend only when haring trouble, solubs aged 16-24, with some mitural teeth

	TE	Those from the North who attend only when having trouble, adults aged 16-34, with some natural teeth	m the	Vorth w	ho atte	(luo pas	/ when	having	trouble	adults.	aged 1.	6-34, w	ith son	ic natur	al toeth	
								Lower Jaw	Jan					l		
				12	Left							Right	pt			
Condition of tooth	-	Molars		Premolars	shars	di.u		Incisors	sons		-ine	Premolars	sars		Motars	-
	90	2	9	'n	4	9	2	-	-	74	3	17	s	9	-	00
Sound and unitreated	×2	25%	25	×2.	13%	%g	97.2	%8%	% 97.2	%3	30%	%2. 4.54	55.7	10.4	21.7	25%
Comment or helderd	Ī	1	1	1	1	1	1	1	1	1	1	ī	1	1	1	1
Octal selection county	5	20-8	123	17-0	24	1	6-0	1.9	6-0	6:0	6.0	7.5	11.3	17.9	8-61	7.5
Filled and decayed	2	9.4	8.5	9.00	1	1.9	1	1	1	6-0	1	2.8	2.8	1.9	2.8	1
Decayed, not previously treated,	7.5	12.3	90	99	5.7	3.8	1.9	80	2	1.9	9-9	3.8	99	90	19.8	11.3
Not materable	60	2.8	3.80	1	1:9	1	1	1	ī	1	1	6.0	1.9	4-7	1.9	6:1
Missine	51.9	32.1	62.2	25.5	5.7	6-0	1	6.0	1	1	1.9	9-9	21.7	61.3	34.0	54.8
	1000	100.0	0.001	0.001	1000		100-0 1000		100-0 100-0	1000	1000	1000	0001	100-0 100-0	1000	100.0
					1											

(i) These from London and the South East who attend for a regular check-up, adults aged 35 or more, with some natural tooth BASIS FOR FIGURE 6-3

	-	hose fin	om Lor	don an	d the S.	ouch Es	Those from London and the South East who attend for a regular check-up, adults aged 35 or more, with	o attend for a regr some natural teeth	for a re	gular ch	neck-up	adults.	agod 3	S or mc	ore, wil	
								Upps	Upper Jaw							
				-	Left							Rig	Right			
Condition of tooth		Molars		Prem	Premotars	Can		Incisers	2100		Chin	Premolars	olars		Molars	
	œ	7	9	×	4	-	7	-	-	2	6	4	50		-	-
Sound and untreated	%4	%2	%=	% <u>r</u>	25%	%\$ 0	%9 7.04	×2 <u>-</u>	×2	1,5	%\$4 £3	25%	%%	%5	×20	26%
Crowned or bridged	1	П	7	2.8	7	0.4	7	2.8	2.8	5.5	0.7	4.	7	ī	1	0.7
Filled, otherwise sound	36.6	53.9	35.9	35.2	33.1	25.5	262	24.8	27.6	23.4	31.7	40.6	37.2	44.1	\$2.4	33.1
Filled and decayed	+	4.8	4	2.1	2.1	5.5	3.4	5.8	7	2.8	3.4	2.8	0.7	2-8	4	2
Decayed, not previously treated, but restorable	-1.	- 1	0.1	0.7	2.1	2	- 1	1	0.7	1	0.4	0.7	1	0.7	- 4	1
Not restorable	1	F	1	1	0.7	I	1	1	I	ı	0.7	0.7	1	Ī	ı	1
Missing	57.9	37.2	56.5	42.0	38.5	19.3	28-3	25.5	22.1	22.8	14.5	38.6	441	50.3	39.3	20,
	1000	1000	1000	100.0	100.0	100.0	1000	100.0	1000	100.0	1000	0.001	100 0	1000	0.001	100.0
													-	Base = 145	25	

BASIS FOR FIGURE 63 (O'Those from Leadon and the South East who attend for a requiar check-up, adults aged 35 or more, with some natural teeth

	g.	nose fro	m Los	on and	the So	Those from London and the South East who attend for a regular check-ep, adults aged 35 or more, with some natural teeth	t who is	attend 5	so attend for a registerior to the	pular ch	ock-ap,	adults	aged 35	S or mo	ce, with	
								Lower Jaw	Jaw							
				12	Loft							Right	H			
Condition of tooth	Ĺ	Molars		Premolars	slars	Ė		Incisors	530		g g	Premolers	ollers		Molars	
		-	9	2	4	3	7	-	-	2	е	4	2	9	7	00
Sound and universed	25%	25%	200	×25	%\$ 648	7.98	×8.8	×2.	×27	20%	83.4	372	28°%	׎	% <u>¥</u>	%4
Crowned or bridged	1	ì	7	0.7	1	1	1	0.7	0-7	ı	i	0.7	1	2.1	1	1
Filled, otherwise sound	42.8	48.3	32-4	40.0	40.7	8.3	37	2.1	34	1.4	10.3	42.0	6-94	23.4	51-0	46.2
Filled and decayed	4-1	17	51	1.4	3.4	2.8	1	1	0.7	0.7	7	2.8	0.7	3.4	2.8	7
Decayed, not previously treated, but restorable	0.7	- 1	0-7	0.7	0.7	7	0.7	-1	1	1	1.4	7	0.7	- 1	1	-1
Not restorable	0.7	1	1	1	1	0.7	1	ī	ī	ı	0.1	1	0.1	1	I	7
	46.2	44-1	909	32.4	10.3	0.7	2.6	6.5	9.6	2.6	2.8	15.2	303	67.7	42.8	46.9
	100-0	100-0	0.001	1000	100-0 100-0	100-0	1000	100.0	1000	100-0		100-0	1000	100-0	1000	900
	100.0			1000	100-0	100-0		0001	100.0 100.0	100.0 100.0 100.0	100-0 100-0 100-0 100-0 100-0				100-0 100-0 100-0 100-0 100-0 100-0 100-0 100-0	100-0 100-0 100-0 100-0 100-0

BASIS FOR FIGURE 6.3

Name		Those fr	Those from London and the South East this associated only when havings routloe, whith aged 35 or move, with some statest texts. Upper Jaw Upper Jaw	lon and	I the So	uth Eas	a other in	some natural sech Upper Jaw	e natural soo Upper Jaw	h havin	gronk	le, adell	page s	35 or m	oee, wil	4
				-	aft							Rig	ŭ			
		Molan		Prem	odars	D G		Inch	sons		P Si	Prem	olars		Molars	
		-	9	'n	4	3	2			2	~	4	'n	9	-	w
Name 100	× <u>*</u>	_	×2	19%	21.2	43.0	35%	45.0	%\$\$ 5.8	% [‡]	7.95 2.05	%2	23%	75.	× <u>=</u>	%5
13		1	ı	T	1	ī	0.5	1.5	5.6	1.0	ı		1	1	1	
10 16 10 15 10 10 10 10 10 10	13.0	18.1	7.8	00	9.3	4-7	5.7	5.2	3,6	6.7	6.7	6.7	138	9.8	15.0	90
23 24 26 25 33 42 173 38 39 67 36 28 28 29 28 47 28 28 28 29 29 29 29 29 29 29 29 29 29 29 29 29	5.6	_	_	1.6	9:	3.6	9.0	2.1	6.5	3.6	3.1	3:1	0.5	1.6	2.6	3:1
1-6 52 2-6 3-1 2-6 1-6 1-6 1-6 2-1 2-6 3-6 3-6 3-6 3-6 3-7 3-6 3-7 3-7 3-7 3-7 3-7 3-7 3-7 3-7 3-7 3-7	2	6.7		5.6	5.6	7.3	23	7.3	80	9.3	6.7	3-6	3-6	2.1	4.7	3.6
787 623 633 883 425 373 863 868 852 617 607 756 627 156 627 1607 1000 1000 1000 1000 1000 1000 100		5.7 2.6	ш	5.2	2.6	3:1	2.6	1.6	1.6	1.6	12	5.6	3.6	3.6	3.6	2.1
100-0 100-0 100-0 100-0 100-0 100-0 100-0 100-0 100-0 100-0 100-0 100-0 100-0		61.6 62.7	78.7	62-1	63.3	38.3	42.5	37.3	36.3	36-8	35.2	61.7	500	75.6	62.7	684
		100-0 100-0	100-0		100.0	1000	100.0	100-0				1000	100.0	100-0	100.0	0001

BASIS FOR FIGURE 63 (ii) Those from London and the South East who attend only when having trenths, adults aged 35 or more, with some natural teeth

	П		1		1	1			1	l	1	l			1	ſ
Those from London and the South East who attend only when baving trouble, adults aged 35 or more, with some natural tech	oss from Lor	n Loc	3	pur so	the Sor	th East	the offw	some natural teeth	ly when	baving	trouble	adults	agod 3	or mo	re, with	
								Lower Jaw	Jaw							
				12	Loft							Right	ä			
Molars		Ē		Premolars	_	ġ.a		Incisors	8		n Ch	Premolars	dars	-	Molars	
8 7 6	-	9		S	4		2	-	-	24	9	4	s	9	7	
13.5 % 62	_	29		28.5	%\$ 6	%8	%8	87.6	×2.78	%98	82.9	30,3	31:1	%	%# 4	%1
1	H	ī		1	0.5	1	1	ī	1	T	1	1	1	1	1	ı
9-8 15-0 8-3	L	8.3		17.1	11.9	5.6	1.0	ı	0.5	0:	5:7	11-4	124	8.6	191	11.9
1.6 2.6 2.1	_	21		2.1	0.5	1	1	1	1	1	1	1.0	21	5.6	2.1	3.6
52 34 26	_	2.6		4-1	73	1.4	2.1	2	2.1	5.1	4.7	7.8	4.7	2.6	1.6	3.6
47 41 1-6	Ļ	1.6		3.6	4.7	3.6	2.1	1.6	97	2.1	2.6	4-1	6.2	1.6	2.1	3.6
65.2 66.9 79.2	+	79.2		44.6	20.2	52	8:3	8.6	9.3	8.3	4-1	25.4	43.5		65.7	699
100-0 100-0 100-0		1000		1000	1000	1000	1000	1000	100-0	1000	1000	1000	1000	1000	1000	1000

(iii) These from the North who ottred for a companion of the

	F	hose fro	om the	North v	who atte	and for	Those from the North who attend for a regular check-up, adults aged 35 or more, with some natural teath	ar check	be dn-d	hults aga	ed 35 ou	r more,	with a	DOD DOD	tural tex	l tr
								Uppe	Upper Jaw				-			
					Treft							Rig	Right			
Condition of teath		Molars	_	Press	Premolars	ĝ.g		Inci	Incisors		ii.G	Prem	Premolars		Molars	
	00	7	0	S	17	m	2	-	-	2		4	'n	9	7	000
Sound and untrested	20%	2%	13%	13.2	%\$1 5	%	31.6	×2	48.7	×86.	200	% <u>6</u>	%6	2%	%2	342
Crowned or bridged	1	1	I		ı	1.3	1	2.6	1	13	1.3	1	1	1	1	1
Filled, otherwise sound	28.9	51-4	184	28.9	44.8	25.0	32.9	26-3	23.7	34-2	22.4	40.8	40.8	26.3	52.6	31.6
Filled and decayed	3.9	2.6	3.9	5.3	3.9	7.9	7.9	1	95	9.9	53	5.3	3.9	2	7.9	3.9
Decayed, not previously treated, but restorable	2.6	- 1	- 1	- 1	2.6	99	3.9	2	3.9	1	2.6	26	3.9	- 1		2
Not restorable	I	1	1	1-3	1	1	1	ī	1	1	ī	1	1	1	1	1
Missing	28-0	44.7	76.4	51-3	34.2	18.4	23-7	22.4	17:1	18.4	18.4	31.6	42.2	71:1	38.2	553
	1000	100.0	1000	100-0	0.001	0.001	0.001 0.001	100.0	0.001	1000	0-001	100-0	1000	0.001	100.0	1000

(iii) Those from the North who uttend for a regular check-up, adults aged 35 or more, with some natural teeth BASIS FOR FIGURE 63

	These from the North who attend for a regular check-up, adults aged 35 or more, with some natural teeth	on the N	orth w	ho atter	nd for a	regula	r check-	up, adu	Its ago	35 or	more,	with soe	me natr	and toe	4
							Lower Jaw	Jaw							
			12	Left			Ī				Right	ä			
Molars			Premolars	slars	ii.e		Incisors	520		9.8	Premolars	plans	_	Molars	
8 7 6	9		S	4	3	2	-	-	2	3	4	'n	9	7	00
30%	1		%5	32,6	×48	%2	%\$.	%5	%\$	%5	50.1	×4.	3,0	%2	3%
1	1		1	1	1	1	1	1	1	1	ī	ı	1:3	1.3	1
26-3 368 18-4	_		39.5	51-4	9.5	53	13	5.6	13	11.8	35.5	38.2	18-4	35.5	32.9
53 53 53	_		99	1:3	3.9	1	ī	1	1	1.3	1:3	3.9	2	3.9	39
13	-		13	2.6	2	1	- 1	-1	13	13	2.6	5.6	1	- 1	-1
1	1		1	1	1	1	1	1	1	ī	1	1	13	1	1
63:2 540 750			368	11.8	1:3	2.6	3.9	3.9	5.6	1.3	10.5	40.8	73-8	28.0	59.3
1000 1000 1000	9	10	1000	1000	1000	0-001	1000	100-0 100-0 100-0	1000	100.0	1000	0-001	0.001	100-0	1000

(b) Those from the North who attend only when buring trouble, adults used as a

Condition of tooth	Molars		orth wa	o direction	1000	WOLL IN	tving tr	ouble,	uduhts a	Those from the North who attend only when having trouble, adults aged 35 or more, with some natural seeth	or mor	s, with	some n	stural to	oth
	Molan						Uppe	Upper Jaw					-		
	Molar		-	Left							×	Right			1
			Pren	Premolars	9.3		Inci	Incisors		il di		Premolars		Molars	
	7	9	s,	4	3	2	-	-	24	6	4	'n	9	1	00
Sound and untreased 10.5	%5.	%3	20,2	20%	37.1	35.5	38%	42,2	38%	%4	21/8	17.7	%3	%6	25%
Crowned or hridged	1	1	1	1	1	1	1	1	1	1	ı	1	1	1	
Filled, otherwise sound 12.9	11.3	4.00	4.0	90	3.2	40	4.8	40	5.6	95	5.6	3.2	5.9	0.7	0.0
Filled and docayed 3-2	1-6	1.6	24	0.8	0.8	1	80	3.2	1-6	1	1.6	1.6	870	1.6	191
Decayed, not previously treated, but restorable 5-6	6.5	4	6.5	5.6	121	9.7	6.5	27.3	2	-50	4 00	5.6	40	0.00	20
Not restorable 4-0	8-8	3.2	2.4	1.6	2-4	2.4	0.8	1	0.8	8.0	1	1-6	1.6	1.6	8
Missing 63-8	68.5	81.6	64.5	0.29	46.4	47.6	46-6	42.8	47-6	41.1	66.2	70.3	90.08	68.5	8
0.001	1000	100.0	100.0	0.001	0.00	100-0	100.0 100.0	1000	0.001	1000	100.0 100.0	100.0	100-0	1000	0.001

(b) Those from the North who attend only when having trouble, adults aged 35 or more, with some natural teeth BASIS FOR FIGURE 6.3

	Thos	e from	the Nor	th who	attend	only n	Those from the North who attend only when having trouble, adults aged 35 or more, with some natural teeth	ring tro	uble, a	Jults ag	35 bo	r more	with s	ome na	bursh to	t)
								Lower Jaw	Jan							
				3	23					1		Right	x	١		
Condition of tooth	-	Molars		Promolars	olars	g e		Incisors	STO		Can-	Premolars	olars	^	Molars	
	00	-	0	S	4	3	2	-	-	72	m	4	v	9	1	00
Minespend and supplemental	%6	25	%4	35%	49.5	%908	×5.	×88	%8 9.68	83.1	74.2	43.6	25.0	%4	%	×2
Country or bridged	1	1	1	1	ī	1	1	1	!	1	1	1	1	I	1	1
Villad athernies scored	27	9.7	48	6:8	6.8	1.6	2.4	8-0	1	2.4	4.8	4.8	 	3.2	8-9	6.5
Tilled out desired	40	1.6	2.4	8.0	3.2	8.0	80	1	8	1	3	8.0	24	1.6	1.6	1.6
Decayed, not previously treated,		22	1.6	53	8.9	13	6.5	3.2	3.2	40	8:1	121	98	9:1	4.8	2
but restocable	9:1	1.6	80	3.2	1.6	1.6	1.6	1.6	1.6	3.2	1.6	4.8	3.2	1	1.6	2.4
Not restorause	. 2	75.0	864	45:1	28-2	8.1	8	8.4	*	7.3	10.5	33.9	55.7	9.68	75.0	70.9
Missing	100-0		1000	1000	1000	1000	100.0	1000	100-0	1000	100-0	100-0 100-0	100-0	100-0	1000	0.001
													-	Base - 124	124	

BASIS FOR FIGURE 6.4 (I) Those from London and the South East, who attend for a regular cheeck-up, all seleits aged 16-34

		E	sess from	m Lond	lon and	These from London and the South East, who attend for a regular check-up, all adults awed 16-34	uth Eas	t, who	attend	for a rel	gular el	oeck-up	be He .	uits an	d 16-3	
								Uppe	Upper Jaw							
				~	Left							R.	Right			
Condition of tooth		Molars		Pren	Premolars	Q.S		Inci	Incisors		Q e	Progr	Premolars	L	Molars	1
	00	7	9	S	4	m	5	-	-	7	3	v	5	9	-	00
Sound and untreated	2,2	%8	3%	75.	%2 481	73.7	%5	%8	%8	5%5	72,4	19%	20%	×2	%2	×2
Crewned or bridged	1	T	0.1	0.7	0.7	1	2	0.7	5.6	0.1	1	1	1	1	1	1
Filled, otherwise sound	34-9	80.2	63.2	65.1	66.4	17:1	30-9	243	23-0	28.9	17.1	64.5	61.8	71.0	628	25.7
Filled and decayed	2	26	3.9	13	1	13	1:3	23	2.6	33	3.3	2.0	2.0	2.0	3.3	2
Dut restorable but restod,	0.7	0.7	i	0.0	1	2.6	20	1.3	0.7	0.7	2.6	2	13	2	2	2
Not restorable	1	0.7	1	0.7	T	1	ı	1	1	1	1	0.7	1	1	1	1
Missing	51.9	10.5	29.6	11.8	14.5	5.3	8.6	9-9	7.2	7.2	46	11.8	14.5	25.0	10.5	1.19
Edentulous	8	00	0.0	00	0.0	8	0.0	0-0	00	9	0.0	00	0.0	90	0.0	8
	100.0	100-0 100-0 100-0 100-0 100-0 100-0	0.001	1000	0.001		100-0 100-0	0.001	0.001	0.001	1000	1000	100.0	1000	0.001	1000
			-		1			Ì	•							

BASIS FOR FIGURE 6.4 (i) Those from London and the South East, who attend for a regular check-up, all adults aged 16-34

		These	from L	mopuo	and the	South	Those from London and the South East, who attend for a regular check-up, all adults aged 16-34	ho atto.	nd for	regul	r check	-up, all	adults	aged 1	3	
								Lower Jaw	Jaw							
				12	Left			Ī				Right	Ħ			
Condition of tooth		Molars		Premolars	state	ġ a		Incisors	8		Clark	Premolars	dars	^	Molars	
	00	~	9	50	4	6	7	-	-	2	3	4	v	9	_	∞
	7.°C	%.º.	1.5	23.0	55.5	%3	%5	% <u>\$</u>	25.2	%2 7:28	92.7	%\$. 9.	25%	%6	3%	25%
Source and bridged		1	1	1	1	1	1	1	1	1	1	T	1	1	0.7	1
Cited otherwise sound	38-2	77.7	\$6.5	595	34.9	4-6	3.3	5-6	2.6	20	5.3	38.8	58.5	553	75.6	40.1
Filled and deraulti	0.7	3.3	53	0.7	5.6	0.7	0.7	1	1	0.7	1	13	0.7	5.6	1:3	1
Decayed, not previously treated,		4	_	6	1:3	5	0-7	20	1	2.0	0.7	1	-1	1	0.7	ı
Dut 10300 min		_	1	1	1	1	1	1	1	1	I	1	T	1	1	1
NOI Testotana	473	16.4	36.8	19:1	53	1:3	0.0	3.3	3.3	2.6	13	5:3	15-8	41-4	18.4	50.7
reference	0.0	8	0.0	00	0-0	00	0-0	0.0	00	0.0	99	0.0	00	0-0	00	8
each more	1000	1000	1000	0.001	1000	0.001	100-0	1000	1000	1000	1000	1000	0.001	1000 1000 1000	1000	1000
													-	Bisc - 152	152	

BASIS FOR FIGURE 6.4 (9) These from London and the South East, who attend only whon having treaths, all admits agred 16-34

		Those	Those from London and the South East, who attend only when having trouble, all adults aged 16-34	nopuo	and the	South	Bast, w	ho atte	duo pu	when	aving	nouble	all ad	lts ago	116-34	
								Uppe	Upper Jaw							
					Loft							×	Right		ı	
Condition of tooth		Mohrs		Pren	Premolars	Can-		Inci	Incisors		Sa in	Prom	Premolars		Molars	
	80	4	ø	v,	4	3	7	-	-	~	3	4	5	0	-	00
Sound and untreated	%S	% 4	%	35.7	%9	% 4.	%3 9	% 4	1,58	100	75°	3%	30%	16.00	×2.	76
Crowned or bridged	1	I	I	1	!	I	91	1.0	1	1	9	1	1	1	1	1
Filled, otherwise sound	14:1	42.1	40.3	27.2	25.2	8.4	6.6	11.2	121	141	11.2	25.2	27.9	39.3	46.8	14.1
Filled and decayed	1.0	2.8	9.6	0-1	1.0	80	2.8	3.8	2.8	1.8	1	1.0	3.8	2.8	9	2
Decayed, not previously treated, but restorable	9-9	7.5	2.8	- E	3	2.8	4.7	58	2	2.8	2	2.8	3.8	9.50	2	8.2
Not restorable	2.8	4.7	1.8	2.8	2.8	1.8	1.00	1-0	80	1.0	1.0	2.8	2.8	87	· ·	12
Missing	51.3	24:3	40.2	29-8	21.4	14:1	141	12:1	12.1	17.7	7.5	25.2	27.2	40.2	22.4	56.9
Edentialous	3.7	3.7	3:7	3.7	3.7	3.7	3.7	3.7	3.7	3-7	3.7	3.7	3.7	3.7	3.7	3.7
	0001	1000 100.0	0001	100-0 100-0		100.0	0.001 0.001	100.0	100.0	100.0	1000	100.0	0.001	100.0	0.001	100
		I	1													

BASIS FOR FIGURE 6.4

(10) Those from I corden and the South East, who attend only when having trouble, all adults aged 16-34

(a) The transfer of the transf											1	1	1	1		Γ
	_	Thosa fi	on Iro	ndon an	od the S	South E	Those from London and the South East, who attend only when having trouble, all adults aged 16-34	o attend	only v	then ha	ving to	suble, s	Il adul	page s	16-34	T
								Lower Jaw	Jaw							
		-		12	Len			Ī				Right	Ħ			
Condition of tooth	-	Moiars	Г	Premolars	olars	g.g		Incisors	25		ģ.g	Premolars	lars	^	Molars	
	00	-	9	S	4	6	2	-	-	121	60	4	S	9	-	00
Donney and united the	12%	10.2	100	37.4	%2	%8	×2	% 88.7	%5	% 7.00	%8	33%	39.3	30%	25%	75
Designation of the standard	1	1	1	1	1	1	ı	1	1	1	1	1	1	1	1	1
Crowned and orniged	16.8	30.3	33.7	23-4	14.9	95	3.8	89	1.8	2.8	4.7	14-1	21.5	35.6	31.0	15.8
Filled, officewise south	9	90	2.8	2.8	1	1	1	10	1.0	1	1	i.	1.8	4-7	8.4	1-0
Docayed, not previously treated,	0.0	8.4	85	10.2	4.7	90	1	1:0	9	1:8	- 1	5.6	3	99	13.1	9.6
out restorable	191	_	_	_	1	1	1	1	1	ī	1	1.8	4.7	2.8	2.8	1.0
Not restourne	45.9	-	4	20.7	9.9	2.8	8%	3.8	1.0	97	4.7	7.5	22.4	41.9	29.9	50.5
	12	_	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3:7	3-7	3.7	37	
Edentulous	100	1000	1000	1000	1000 1000 1000 1000	1000	1000 1000	1000	1000	1000	100.0 100.0	100	100.0	1000	1000	100.0
		-										l			1	

BASIS FOR FIGURE 6.4 (iii) Those from the North, who attend for a regular check-up, all adults aged 16-34

	l	1	9	OPO ILO	a tage o	vorth,	vho atte	and for	a regul	r chock	enb, al	adults	mose from the North, who attend for a regular check-up, all adults aged 16-34	7.7		
								Upp	Upper Jaw							
					Len							Rij	Right			
Condition of tooth		Molars		Pren	Premolars	Q-i		Inci	Incisors		Can	Prem	Premolars		Molars	
	00	-	o	s	4	-	22	-	-	2	~	4	0	0	-	~
Sound and untreated	% <u>?</u>	%3	%	28%	%S	%	×8.	%59	55	5.5	7/2	3%	25%	100	76,	×
Crowned or bridged	1	ì	1	ı	1	ı	2.3	34	Ξ	5.7	1	1	1		1	
Filled, otherwise sound	29.6	69.3	43.1	42.0	44.3	14.8	25.0	21.6	181	23.4	12.5	47.7	47.8	26.8	0.89	23.7
Filled and decayed	2.3	5.7	4-6	2.3	3.4	3.4	2.3	2.3	3.4	1	2.3	2.3	4.6	3.4	6.3	100
Decayed, not previously treated, but restorable	2.3	1	7.	34	3.4	5.7	2	1	2.3	3	3.6	3	2	2.3	2	1 2
Not restorable	1	1	1	1	1	1	Ξ	ı	1	1	1	1	1	1		1
Missing	45.4	13.7	41.0	19.3	11.4	2.3	4-6	5.7	3.4	16	4-6	17	19.3	29.6	14.8	58.7
Edeatulous	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4-5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	13
	0001	100.0	0.001	100-0 100-0	100-0	100.0	1000	100.0	1000	1000	1000	1000	1000	1000	000	1000

BASIS FOR FIGURE 6.4

and alread for a results charle and admits nord 16-34

			Thos	mout a	the No	rth, wh	Those from the North, who attend for a regular check-up, all adults aged 16-34	fora	regular	checket	p, all a	dults as	-91 par	75		T
	1							Lower Jaw	Jaw				U			I
		ł		3	Left			Ī				Right	=			
Condition of tooth	-	Molars	Г	Premolars	Bars	d a		Incisors	suo		P. Car	Premolars	lans	-	Molars	
	00	-	0	2	4	3	7	-	-	2	3	4	S	9	7	
County and unitreason	74.7	14%	167	2,62	200	×8.68	%8	%06	×8	×6.	87.5	% 8% 846	35.2	2%	×5.	13.6
Designation of Section	1	1	1	1	1	1	Ξ	1	ī	1	ı	1	1	1	1	ı
COVIDE AND OTHER	36.3	62-6	467	43.1	33.0	46	5.7	4.6	4.6	3.4	5.7	33-0	444	48.9	62.5	19.3
Filled, otherwise sound	1 3	4.6	9.9	4.6	4-6	Ξ	1	1	1	1	1	=	3.4	5.7	5.7	23
Pilled and uccayed Decayed, not previously treated,		3	2	1	121		1	1	ı	Ξ	2.3	1	-	1	2.3	Ξ
but restocatio		1	1	1	1	1	1	1	1	1	1	ı	1	1	1	1
Moderate	51.1	204	37.5	14.8	3	1	2.3	I	1	1	1	8-9	12.5	35.2	19:3	39.2
Eduntulons	5	4.5	4.5	4.5	4.5	3	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.4
	1000	100.0	1000	1000 100-0 100-0 100-0	1000	100-0 100-0	1000	100-0 100-0	100-0 100-0 100-0 100-0	100-0	1000		100.0 100.0	1000	100-0 100-0	1000
													ľ	Dans - 88	88	

BASIS FOR FIGURE 6.4 (b) Those from the North, who attend only when haring trouble, all adults aged 16-34

Condition of tooth M							1	the state of the s	9 1100	-					
							Uppa	Upper Jaw							ı
			7	Toft							Right	ht			
	Molars		Premolars	olars	in G		Incisors	5003		P. Sin	Premolars	olars		Molars	
00	7	9	'n	4	en	7	-	-	2		4	'n	9	7	000
Sound and untreated 23-6 2	26.1	%0I	43.9	43.2	75.7	×%	×89	250	% 6:09	71.6	% 4	×2.	% 1	22%	25. 1.17
Crowned or bridged	ī	1	1	i	1	I	1	0.8	i	1	1	1	1	ī	ì
Filled, otherwise sound 10.6	17:1	18.7	12.2	13.0	80	4.1	4-9	4.9	4.9	1.6	13.8	15.4	17.9	25.3	7.3
Filled and decayed	6.5	6.5	1	1	88	0.8	88	1.6	4	1	0.8	0.8	7.3	1.6	24
Decayed, not previously treated, but restorable	154	8	2		2.4	12.2	4	7.3	5.7	6.5	6.5	7.3	13	19.5	2
Not restorable 1-6	2.4	1.6	1.6	2.4	80	1	1	1	1	1	24	24	3-3	1.6	0.8
Missing 36-6	18.7	39.8	20-4	19.5	5.7	12:2	8:1	9.6	10.6	6.5	18.7	21.2	39.0	154	39.0
Edentulous 13-8 1	13.8	13.8	13-8	13.8	13.8	13.8	13.8	13-8	13-8	13-8	13.8	13.8	13.8	13.8	13.8
1000 10	10001	100.0 100.0 100.0 100.0	0.00	000	0.001	100-0	0.001	0:001 0:001	100.0 100.0	1000	0.001	100.0 100.0		100.0 100.0	100.0

BASIS FOR FIGURE 6.4 (b) These from the North, who attend only when having treaths, all adults aged 16-34

			Thoss	from th	s Nort	h, who	Those from the North, who attend only when having trouble, all adults aged 16-34	only wh	oen havi	ing trou	ibbo, all	adults	aged 16	5-34		
								Lower Jaw	r Jaw							
				1	Left							Rig	Right			
Condition of tooth		Molars		Prem	Premolars	Can to		Incisors	Store		g a	Premolars	olars		Molars	
	∞	-	0	20	4	8	2	-	-	12	9	4	S	9	-	000
Sound and untreated	7,7,7	% <u>%</u>	×	%9 8.6	1,50	%98 80.8	×8,5	83.0	×8.	83.0	×ē	%5	% \$	768	18.7	×2
Crowned and bridged	1	1	1	1	ī	ı	ī	1	ī	ī	ī	ī	ī	1	1	1
Pilled, otherwise sound	4.9	17.9	9-01	14.7	2	I	9.8	1.6	0.8	8.0	8-0	99	6.6	154	17:1	6.5
Filled and decayed	1.6	8.1	7.3	3.3	1	1.6	ī	1	1	0.8	ı	2.4	2.4	1.6	2.4	1
Decayed, not previously treated, but restorable	23	10.6	33	5:7	4-9	33	9:1	8.0	9.	9:	5.7	33	5.7	25	17.1	9.7
Not restorable	0.8	2.4	3.3	1	1.6	ı	I	1	1	1	1	0.8	1.6	1.4	1.6	9
Missing	44.7	27.7	53.6	22.0	6-9	8.0	1	80	ì	1	1.6	5.7	18.7	52.8	29.3	47.3
Edentulous	13-8	13.8	13-8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13-8	13.8	13-8	13.8	13.8
	100.0	0.001	100-0	1000	100.0	1000	100.0	0.001	0.001	1000	100-0	0-001	0.001	1000	0.001	100.0
														Base - 123	123	

(i) Calculus—adults aged 16-34, with some natural teeth

			1		Adults	aged 1	S-34, 11	ith son	Adults aged 16-34, with some natural teeth	al teeth					
- 1							Upp	Upper Jaw							
		İ	-	Left							2	Right			
Mohrs			Premolars	alars	Q:		Inc	Incisors		Ŷ.a	Prem	Premolars		Molars	_
-		9	'n	4	9	2	-	-	7	3	4	5	9	-	00
×		>0	%	%	×	%	%	%	%	%	34	%	×	%	100
103		_	3.3	5.5	3.4	3.6	3.6	34	3.2	3.2	2.2	2.8	7.1	86	3.7
72.8	**	52-4	74-4	80.5	807	87-1	89.0	89.0	9998	913	79.3	764	56-0	73.8	43.5
6-91		_	22.3	17.0	9-9	9.3	7.4	7.6	10.2	5.5	18.5	20.8	36.9	164	52-8
0001		1000	0001	1000	0.001	10001	0.001	100.0	100.0	100.0	100.0	100.0	1000	0-001	1000
		i					Lome	Lower Jaw							
28		%	×	%	×	×	×	×	×	%	*	%	%	×	100
7	_	4.3	7	11.0	33.5	48.9	55-4	564	49.1	33.6	12.0	9.9	5.3	20	2.1
9.6		46.8 7	72.9	82.4	65.2	49.4	42.8	42.4	49.7	64.7	81:1	75.8	45.1	0.69	46.2
23.7		48.9	20.0	99	1.3	1.7	200	1.2	1.2	1:1	6-9	17.6	49.6	26.0	51.7
000		100.0	10001	100.0	100.0	100-0	100.0	0.001	1000	1000	100-0 100-0	1000 1000 1000	0.001		100.0

BASIS FOR FIGURE 7.1 (ii) Ginelylds—adults and 16-34, with some natural to

Modern M	Left Premolars 5 4				in soni	natura c	Adults agod 16-34, with some natural teeth					
Molars Molars Mo	Premolar 5 4			Uppe	Upper Jaw							
Moleur 6 7 6 7 7 1 1 1 1 1 1 1 1	Premola 5 4							Rig	Right			
8 7 8 8 7 8 8 7 8 8 9 113 113 113 113 113 113 113 113 113 1	Н	r Can-		Inci	Incisors		Can-	Prem	Premolars		Molars	
76 125 1112 451 706 504 473 169 384 1700 1000 1000		4	24	-	-	~	~	4	s	9	-	00
7.6 12.5 11.2 45.1 70.6 50.4 47.3 16.9 38.4 100.0 100.0	%	%	%	%	%	%	%	%	×	%	×	%
45.1 70.6 50.4 47.3 16.9 38.4 100.0 100.0 100.0	9.2	9-0	12.6	121	12.7	14.1	12.5	9.1	83	9.4	103	4.7
100-0 100-0 100-0	68.5 72	72-6 82-0	78:1	80.5	79.7	75.7	82.0	72.4	70.9	53.7	73-3	42.5
0.001	22.3	17-0 6-4	66	7.4	7.6	10.2	2	18.5	20.8	36.9	164	32.8
2	000	100.0	0001	100.0	1000	1000	1000	100.0	100.0	100.0	1000	0001
20				Lowe	Lower Jaw							
	%	%	*	%	×	%	×	%	%	%	%	%
With glagivitis 6-1 8-0 5-6	6.7 10	10-0 19-5	23.5	24.8	26.0	25.0	21:1	11.4	iè	6.7	8.0	4.9
Without ginglyitis 45.0 66.3 45.5 7	73.3 83	83-4 79-2	74.8	73.4	72.8	73.8	77.2	81.7	74-3	43.7	0.99	43.4
Tooth missing 48-9 25-7 48-9 2	20.0	6-6 1-3	1.7	8:	1.2	1.2	1.7	6.9	17.6	9.69	26.0	51.7
100.0 100.0 100.0 100.0 100.0	0000	0.001 04	1000	100.0 100.0 100.0 100.0 100.0 100.0 100.0	1000	100.0	1000	100.0	100.0	1000	100.0	1000

BASIS FOR FIGURE 7.1

(Bi) Pockoting—adults aged 16-34, with some natural teeth

						Adults	agod 1	Adults aged 16-34, with some natural teeth	ith som	e natur	al teeth					
								Uppe	Upper Jaw							
					Left							Rip	Right			
Gum condition		Mohrs		Pron	Promolars	Can		Inci	Incisors		Q en	Prem	Premolars		Molars	ĺ
	00	7	9	'n	4	~	2	-	-	2	-	4	S	9	-	00
	×	×	×	×	%	×	%	×	%	%	%	%	%	%	×	%
With pocketing	1.6	3.7	3.4	2.5	3.2	2.9	3	34	3.9	S	3.7	2.7	2.6	2.3	3.2	2
Without pocketing	51.1	79.4	58.2	75.2	79.8	90.7	85.6	89.2	88.5	84.5	8.06	78.8	76.6	809	80.4	46.2
Tooth missing	47.3	16.9	38.4	22.3	17.0	6.4	9.3	7.4	2.6	10-2	5.8	18.5	20.8	36.9	16.4	52.8
	1000	100.0	1000	100.0	100.0	100.0	1000	100.0	0001	100.0	1000	100.0	0.001		0.001 0.001	0.00
								Lone	Loner Jaw							
	×	%	%	%	×	%	×	%	%	%	74	%	%	%	%	%
With pocketing	2.5	2.1	1.7	2.5	2.9	4:7	6.1	0-9	9	90	43	5.8	2.2	- E	2.8	2
Without pocketing	48.6	72.2	49.4	77.5	50.5	940	92.2	92.2	928	93.0	940	90.3	80.2	48.6	71.2	47.0
Tooth misting	48.9	25-7	48.9	20.0	9-9	1.3	1.7	99	1.2	1.2	1.7	69	17.6	49.6	26.0	51.7
	100.0	100-0	0.001	0-001	0.001	100.0	100.0 100.0	1000	0.001	100.0 100.0 100.0	100.0	1000	0.001	1000	100.0 100.0	100.0
	1		1		-	1		1					1	d	П	

BASIS FOR FIGURE 7.1 (ft) Recession—adults aged 16-34, with some natural teeth

					ì	Adults	aged 16	Adults aged 16-34, with some natural teeth	th some	natura	d teeth					
								Upper Jaw	Jaw.							
				2	Left							Rig	Right			
Gum condition		Molars		Premolars	olars	Can		Incisors	5301		Can-	Premolars	olars		Molars	
	00	-	9	s	4	-	24	-	-	м	6	4	S	9	7	00
	%	×	%	×	%	×	%	%	%	%	%	%	7.	×	×	%
With recession	2	0	13	80	9:1	3.2	13	0:1	60	0.7	2.5	1.7	Ξ	6-0	91	ő
Without recession	52.6	83.0	60.3	77.2	4	8.4	89.4	91.6	91.5	89.1	93.0	79.8	78.1	62.2	82.6	47:1
Tooth missing	47.3	16.9	38.4	22.3	12.0	64	9.3	7.4	2.6	10.2	SS	18.5	20.8	36.9	164	52.8
	100.0	1000	100.0		0.001	1000	0.001	1000	0.001	1000	0.001	1000	1000	100.0	0001	100.0
		1						Loudt Jaw	r Jaw							
	%	%	×	×	*	×	%	*	%	%	×	%	%	%	×	*
With recession	2	0.0	9.0	90	2.2	2.7	2.1	2.7	2.8	2.6	2.2	1.6	1.2	9.0		0.2
Without recession	51.0	73.8	50.5	79.4	91.2	096	96.2	95-5	096	96.2	1-96	516	81.2	30.0	240	48.1
Tooth missing	48.9	25.7	48.9	200	9.9	13	1.7	œ.	1.2	1.2	1.7	6-9	17-6	49.6	26-0	51.7
	100.0	100-0	1000	0.001	100-0 100-0		100.0		0.001	0001	100.0	100.0	100.0	1000	100-0	100.0

BASIS FOR FIGURE 7.2 (f) Calculus—adults aged 35 or more, with some natural teeth

					<	dules a	Adults aged 35 or more, with some natural teeth	or more	, with s	ome na	foral te	-fi				
								Upp	Upper Jaw				1	1	ĺ	
					reu							2	Right			
Gum condition		Molars		Pren	Premolars	ģ.		Inc	Incisors		O-Sign		Premolars		Molars	_
	90	-	9	50	4	8	7	-	-	2	-	4	~	9	-	00
	*	×	%	%	%	*	×	×	*	×	*	×	1%	24	34	2
With calculus	8.0	12.9	7.4	6.2	5.0	7.7	6.7	6.8	7.6	6.8	8.2	4.3	5.0	7.1	120	25
Without calculus	324	31.9	19-0	37.6	40.8	6-19	57.0	61.2	62.0	59.7	629	43.8	37.5	23.1	33.2	28.9
Tooth missing	986	55.2	73.6	56.2	542	30-4	36.3	32-0	30.4	33.5	28.9	51.9	57.5	8.69	54.8	9:69
	100.0	0001	100.0	0.001	100-0	1000	100-0	1000	100.0	1000	1000	0001	100.0	1000	1000	
								Lowe	Lower Jaw					7	1	
	×	*	×	*	%	%	%	%	%	%	%	%	74	%	12	14
With calculus	23	8.5	6.2	15.3	26.2	58.7	0.17	73.5	73-2	71.3	57.5	25.2	15.9	899	80	6.3
Without calculus	31.0	31.9	18.4	43.5	54.3	37.3	22.5	18.5	18.5	22.9	37.9	52.9	44.6	183	31.7	32.7
Tooth missing	61.5	9.66	75-4	41.2	19.5	4.0	6.5	8.0	83	5.8	4.6	21.9	39.5	75.9	59.5	61.0
	1000	900	1000	1000	1000	100.0 100.0	100.0	100-0	100-0 100-0 100-0 100-0 100-0 100-0	100.0	1000	100.0		1000	1000	0.00

BASIS FOR FIGURE 7.2

(ii) Gingivitis—adults aged 35 or more, with some natural teeth

					-	Adults aged 35 or more, with some natural teeth	ged 35	or mor	e, with	some n	atural t	eth				
								Upper Jaw	Jaw.							
				-	Feft							Right	ā			
		Molars		Premolars	olars	9.8		Incisors	Sions		g'ë	Premolars	olars		Molars	
		7	9	2	4	6	24	-	-	2	~	4	s	9	7	∞
	×	%	х	×	×	×	х	×	×	×	×	*	×	*	ж	*
	3-6	10.3	6.5	8.9	5.5	16.3	13:3	12.9	14	13-8	16-2	8.5	*	6.9	9.1	6.5
Without gingivitis	32.8	34-5	19.9	34.9	36-1	53.3	504	55-1	55.2	52.7	54.9	39.6	34.1	23-3	36.1	23.9
	9.65	55.2	73-6	28.2	54.2	30.4	36.3	320	30.4	33.5	58.9	51.9	57.5	8.69	5. 5.48	9.69
	100-0	1000	100-0	1000	100-0	1000	0.001	1000	100-0	1000	100-0	1000	100-0	1000	100-0	1000
								Lowe	Lower Jaw							
	×	24	*	×	*	*	*	Х	*	х	%	%	*	%	%	×
	8.3	100	4.9	12.5	18-8	31.5	33.6	35.5	35.2	35.6	32.7	18.0	13:3	14	80.	6.5
Without gingivitis	30.2	30.4	19.7	463	61.7	64.5	6.65	\$65	5.95	58.6	62:7	1.65	47.2	99.0	31.7	32.5
	61.5	9.65	75.4	41.2	19.5	4.0	6.5	8.0	6.3	5.8	4.6	21.9	39.5	15.9	59.5	61-0
	100-0	1000	100-0	1000	100-0	1000	1000	1000	100-0	1000	1000	1000	100-0	1000	1000	1000
			1	1	1		1	1	1	1	1	1	1		1	

BASIS FOR FIGURE 7.2
(iii) Pocketing—adults aged 35 or more, with some natural teeth

					¥	fults ag	35 0	Adults agod 35 or more, with some natural toeth	with se	ame ma	ural to	di.				
								Uppe	Upper Jaw							
				-	Left							Ri	Right			
Gum condition		Molars		Prem	Premolars	g g		Inci	Incisors		in G	Prem	Premolars		Molars	
	00		9	'n	4	6	7		~	7	3	4	5	9	7	00
	%	%	%	×	%	×	*	%	%	%	×	%	%	*	1%	%
With pocketing	9.6	7.9	4.7	5.7	4.8	8	8.9	·	8:5	8.2	10-4	5.8	4.1	4	7.3	6.4
Without pocketing	34-8	36.9	21.7	38.1	41.0	8	54.8	59.9	61.4	58.3	60.7	42.3	38.4	25.4	37.9	30.0
Tooth missing	9.69	55.2	73.6	56.2	245	30.4	363	32.0	84	33.5	28.9	51.9	57.5	8.69	548	9.69
	1000	100.0	0.001	0-001	100.0	1000	100.0	0.001	100.0	1000	100.0	0.001	1000	100-0	100.0	100-0
								Lowe	Lower Jaw				1			
	%	×	%	х	%	%	%	×	%	%	*	*	%	%	*	3%
With pocketing	2.0	35	5.4	7.7	10.9	18.0	18.0	18-5	9-81	18.5	17.9	6.6	7.7	23	4.4	43
Without pocketing	33.5	34.9	22.2	51.7	9-69	73.0	75.5	73-5	73-1	75.7	77.5	68.2	52.8	21.8	36-1	34.7
Tooth missing	61.5	9.69	75.4	41.2	19.5	4-0	6.5	8.0	83	5.0	9.4	21.9	39.5	75.9	59.5	61.0
4	1000	1000	0001	100-0	1000	100.0	100-0 100-0	0.001	0.001 0.001	100-0 100-0	100.0	100-0	0001	100.0	1000	100.0

BASIS FOR FIGURE 7.2 Decession, while good 35 or more with come natural

					Ad	olts ago	Adolts aged 35 or more, with some natural teeth	more,	with so	me nat	aral teo	th th				
								Upper Jaw	Jaw.							
				3	Left							Right	ię			
Gum condition		Molars		Premolars	olars	g g		Incisors	suos		in G	Premolars	olars		Molars	
	00	7	9	90	4	9	2	-	-	24	3	4	'n	9	ь	00
	%	%	%	*	%	*	×	%	×	%	×	%	×	%	×	%
With recession	3.9	7.5	6.5	6.4	8.8	10.8	4.4	6.4	46	4.4	9.5	5.8	0.9	0.9	6.7	3.6
Without recession	36.5	37.3	19.9	37.4	40-0	888	59.3	63.7	0-59	62-1	619	42.3	36.5	24.2	38.5	32.8
Tooth missing	59.6	552	73.6	295	54.2	30.4	36.3	32.0	304	33.5	28.9	51.9	57.5	8.69	54.8	63-6
	100-0	1000	100-0	0001	0.001	1000	100-0	1000	0.001	100.0	0.001	1000	0001	100.0	1000	100.0
								Lowe	Lower Jan							
	×	×	*	×	%	34	%	×	%	×	%	%	%	%	×	%
With recession	2.8	3.9	1.8	83	13.4	17.	16.2	191	17.7	16.4	17.9	12.4	9.3	1.4	4.2	2.3
Without recession	35.7	36.5	22.8	50.5	67.1	78-9	77.3	72.9	74-0	77.8	77.5	65.7	51.2	22.7	36-3	36.7
Tooth missing	61.5	9.65	75.4	41.2	19.5	40	6.3	8.0	8.3	28	9-9	21.9	39.5	75-9	59.5	0.19
	100-0	100-0	1000	100-0	1000	100-0	100-0	0001	0.001 0.001 0.001 100-0 100-0 100-0	1000	1000	1000	100-0	1000	100-0	1000

CONDITION TOO INFREQUENT TO PRESENT DIAGRAMMATICALLY

(v) The distribution of loose teeth around the mouth, for abilits aged 35 or more, with some natural teeth

					V	duits ag	ed 35 o	c more	Adults aged 35 or more, with some natural teeth	ome nat	tural tex	oth				ĺ
	i							Uppe	Upper Jaw							
				-	Left							Ri	Right			
Gum condition		Molars		Pren	Premolars	Q.ii		Inc	Incisors		Ş.8	_	Premolars		Molars	
	00	7	9	'n	4	6	7	-	-	2	3	4	5	9	1	00
	%	*	%	×	%	%	%	×	%	24	%	×	*	×	%	1×
With tooth loose	0.3	0.5	0.5	9-0	0.5	89	9-0	0.7	0.7	0:1	6.0	90	0.3	90	0.2	3
Without tooth loose	40.1	443	25.9	43.2	45.3	8.89	63-1	67.3	6.89	65.5	70.2	47.5	42.2	29.62	45.0	361
Tooth missing	9-65	55.2	73-6	56-2	54-2	30.4	36.3	32.0	30.4	33.5	28.9	51.9	57.5	8.69	848	9:69
	1000	100.0	100.0	100-0	0.001	100.0	100.0	0.001	100.0	100.0	100.0	100.0	100.0	100-0	0001	1000
								Lowe	Lower Jaw							
	*	×	%	×	%	×	%	×	%	34	%	%	%	%	%	1%
With tooth loose	0.5	90	6.1	0.7	Ξ	1-7	2.5	2.6	2.6	2:2	1:8	1.0	6.0	0.3	0.5	63
Without tooth Joose	38.3	39.8	24.5	88.1	79.4	243	91-0	89.4	89.1	95.0	93.6	77.1	9-65	23.8	40.0	22
Tooth missing	61.5	9.65	75.4	41.2	19.5	4-0	6.5	8.0	8-3	5.8	4.6	21.9	39.5	75.9	59.5	61.0
	100.0	100-0	0001	100.0	1000	100.0	100.0	0.001		0.001 0.001	100.0	100-0 100-0 100-0 100-0 100-0 100-0	100.0	100.0	0.001	0.001

Base - 878

BASIS FOR FIGURE 73 () Calculus—adults aged 16-34, with some natural teeth, who attend for a regular check-up

			Ad	olts age	d 16-3	6, with	some n	atural t	w 'trac	ho atter	nd for a	Adults aged 16-34, with some natural toeth, who attend for a regular check-up	r check	dn		
								Uppe	Upper Jaw							
					Len							Ri	Right			
Gum condition		Molars		Prem	Premotars	Q.ii		Inci	Incisors		Quin ins	Prem	Premolars		Molars	
	90	-	9	s	4		2	-	~	2	3	*	2	9	7	66
	%	34	%	×	%	%	%	×	%	×	*	×	%	34	*	×
With calculus	3.3	83	8-9	2.2	1.6	1.9	2.5	2.7	3.0	2.5	2.2	7	2.2	5.7	5.7	2.7
Without calculus	47.8	81.5	61.5	9-08	85.0	94.8	8:16	92.1	92.1	606	93.7	85-8	80.9	67-0	82.6	41.0
Tooth missing	43.9	11.7	31.7	17.2	13.4	33	5.7	5.5	4.9	99	4.1	12.8	6-91	27.3	11.7	\$63
	100.0	0.001	100-0	0.001	100.0	0.001	100.0	100.0	100.0	0.001	100-0	1000	100-0	1000	100-0	0.001
								Lowe	Lower Jaw							
	%	%	×	×	×	×	%	×	%	×	%	×	%	×	%	2%
With calculus	2:2	+	3.8	9+	5.7	21.9	35.5	41.0	42.6	35.2	22.1	6.1	3.0	4	4.4	2.7
Without calculus	49.2	77.3	9.99	78.2	89.4	77.6	63.4	57.6	26.0	63-2	77.1	87.9	82.5	53-0	75-4	45.7
Tooth missing	48.6	18.6	39.6	17.2	4.9	60	Ξ	1.4	*	1.6	8-0	0.9	14.5	42.9	20.2	91.6
	0.001	100.0	0.001		100-0 100-0	100-0	0-001	100-0 100-0		100.0 100.0	100.0	1000	0.001	0.001 0.001	0.001	000
					-							1	_			

			23	90	100	3.3	38-4	\$83	100-0	1	*	μ.	43.2	51.6	100.0	
			Molars	-	%	8.5	3.8	11.7	100.0		3	7.7	72.1	20.2	0001	
dn-			L	0	%	8.7	64-0	27.3	100.0		1%	6.3	50.8	42.9	0.001	
r check		Right	Premolars	5	%	5.7	77-4	16.9	0.001		%	9-9	78.9	14.5	0.001	
a regul		2		4	%	63	80.9	12.8	100.0		1%	9.6	84.4	0-9	100.0	1
nd for			Qui e	3	3%	10:1	858	4	1000		%	16-4	82.8	0.8	100.0	
tho atte				7	×	12.6	80-8	9-9	0.001		%	18-6	79.8	1-6	1000	
toeth, v	Upper Jaw		Incisors	-	×	11:5	83-6	4-9	100-0	Lower Jaw	%	19.7	78-9	4		I
ntara	Upp		Inc	-	%	10.4	24.	5.2	1000	Lowe	%	18.9	79.7	7	100-0 100-0	
Socios				2	%	9.6	84.7	5.7	100-0		2%	18.6	80.3	Ξ	0.001	
9, weto			Cam-	3	*	8.7	88-0	3.3	100-0		%	13.7	85-8	0.5	100.0	
Adults agod 16-34, with some natural teeth, who attend for a regular check-up		Left	Premolars	4	%	9.0	9.77	13-4	1000		%	8-9	88.3	4.9	100-0 100-0	
Tults ag			Pres	s.	*	2.9	74.9	17.2	0.001		×	4-1	78.7	17.2	100-0	
8			.	9	_	12.8	\$5.5	31-7	1000		%	\$2	55.2	39.6	1000	
			Molars	7	%	15.6	75.7	11.7	100.0		%	8.5	72.9	18.6	000	ı
				00	%	Z.	45.6	48.9	1000		%	99	454	48.6	1000	
			Gum condition			With gingivitis	Without gingivitis	Tooth missing				With gingivitis	Without gingivitis	Tooth missing		
						2	18					_	_			

BASIS FOR FIGURE 7.3 (ii) Gingiritis—adults aged 16-34, with some natural testh, who attend for a regular check-up

BASIS FOR FIGURE 7.3 (iii) Pociecing—adults aged 16-34, with sonos antural teeth, who attend for a regular check-up

н

			Adu	its agod	16-34	, with s	omo na	oural te	eth, wh	o atten	d for a	Adoles aged 16-34, with some natural teeth, who attend for a regular check-up	check	dn		
								Upper Jaw	Jaw							
				۵	E.							Right	26			
Gun condition	_	Molars		Premolars	dars	Q.ii		Incisors	520		Gan inc	Premolars	slars		Molars	
		-	9	S	4	6	7	-	-	2	9	+	s	9	7	00
	%	74	%	%	%	><	%	×	%	*	*	×	%	*	%	*
With pocketing	Ξ	30	3.0	2	2.2	2.5	3.6	2.5	2.5	4.6	2.2	7	4	2.2	2.5	0.5
Without pocketing	30.0	85.3	65-3	81.2	844	94.2	200	92.3	926	88.8	93.7	85.8	81.7	70.5	85.8	43.2
Tooth missing	48.9	11.7	31-7	17.2	13-4	3.3	5.7	5.2	4.9	9-9	4	12.8	16-9	27.3	11.7	56.3
1-2	100 0	1000	100 0	100.0	1000	100.0	1000	100-0 100-0		100-0	0-001	1000	1000	100-0	100-0	1000
								Lower Jaw	Jaw							
	×	%	74	%	%	%	%	%	*	*	×	%	%	%	%	%
With pocketing	1.6	1.6	Ξ	1.9	7	2.2	4.1	2.7	2.7	3.3	2.7	Ξ	7	Ξ	2:2	Ξ
Without pocketing	49.8	79.8	59.3	608	93.7	97.3	94.8	656	95.9	95-1	5.96	676	84.1	980	27.6	47.3
Tooth missing	48.6	18-6	39.6	17.2	4.9	0.5	Ξ	7	1.4	1.6	8.0	9-9	14.5	42.9	20.2	51.6
, -	0.001	100-0 100-0 100-0	100.0	1000	0.001	1000 1000 1000 1000	100.0	1000	100-0 100-0 100-0	0-001	1000	1000	1000	1000	1000	1000

BASIS FOR FIGURE 7.3

(iv) Recession—adults aged 16-34, with some natural tests, who attend fee a receiver check.

			7	Adults agod 16-34, with some natural teeth, who attend for a regular check-up	5-91 bc	f, with	n cemos	abural	leeth, u	ho atte	nd for	regula	r chock	dn		
								Uppe	Upper Jaw						1	
					Left							×	Right			
Gum condition		Molars		Pren	Premolars	P en		Inci	Incisors		Q a	Press	Premolars		Molars	
	00	-	0	S	4	3	2	-	-	7	6	*	5	9	-	000
	ж	*	%	×	%	%	%	×	*	%	*	×	%	1/2	1%	><
With recession	1	1	7	0.5	1.6	1	Ξ	0.3	9.0	1	2.7	27	Ξ	1.5	0.3	1
Without recession	51:1	88.3	699	82.3	85-0	97.6	93.2	94-5	946	93.4	93.2	84.5	82.0	71.3	88.0	43.7
Tooth missing	48.9	11.7	31.7	17.2	13-4	3.3	52	5.2	4-9	9-9	14	12.8	16.9	27.3	11.7	563
	1000	100.0	1000	0.001	100.0	0-001	1000	100.0	100.0	100.0	100-0	100.0	100-0	100.0	100.0	000
								Lowe	Lower Jaw							
	*	%	%	%	%	%	×	%	×	%	×	*	%	34	%	34
With recession	I	1	0.5	9.5	2.2	7	0.5	0.5	0.5	0.3	Ξ	1.0	8.0	0.5	1	1
Without recession	514	8	89.9	82.3	676	98.1	98.4	98-1	98:1	1-86	98-1	92.1	84.7	366	8-62	48.4
Tooth missing	48.6	18.6	39.6	17.2	4.9	0.5	14	1.4	7	1.6	8-0	0.9	14.5	42.9	20.2	51.6
	0.001	100.0 100.0	100-0 100-0		0.001	0.001	0001	100-0 100-0 100-0 100-0 100-0	1000	100.0	0.001	0-001	1000	1000 1000 1000 1000 1000		0.001
							i									

BASIS FOR FIGURE 7.4

		Adult	page s	16-34,	vith soc	me natic	mal teet	h, who	Adults aged 16-34, with some natural teeth, who attend only when they are having trouble	only w	nen the	y are he	wing to	apple		
								Upper	Upper Jaw							
					Left							Rig	Right			
Gum condition	L	Molars		Prentolars	sirgo	g a		Inci	Incisors		gi.g	Premolars	olars		Molars	
	∞	-	9	s	4		2	-	-	7	m	4	'n	v	2	00
	%	%	*	%	*	74	%	×	%	3%	%	%	×	%	%	%
With calculus	7:2	14:1	11.7	ĭ	4.2	9	5.4	4.8	3.9	4.5	4.8	3.6	4.2	8.1	14.7	5.7
Without calculus	46.1	62.2	40.1	9-59	74.2	83.5	80.2	24	84-4	39.6	87.4	71.3	9.89	43.1	62.8	46.4
Tooth missing	46.7	23.7	48.2	29.0	21.6	10.5	14-4	Ξ	11.7	15.9	7.8	25-1	27.2	48.8	22.5	47.9
	100-0	100.0	100.0	100.0	100-0	1000	100.0	1000	1000	1000	100-0	1000	100-0	1000	100-0	1000
								Lowe	Lower Jaw							
	×	×	*	74	%	×	%	×	%	*	%	%	%	×	×	×
With calculus	3.0	4.2	4.2	9.6	18-0	43.7	61.7	6.89	69.2	629	43-4	18.3	9.6	4.5	3.9	2
Without calculus	49.4	59.3	34.1	999	73.9	53.9	36.2	29.0	29.6	36.5	53.9	74.2	8.8	350	6-65	46.1
Tooth missing	47.6	36.5	61.7	240	8-1	54	2.1	2.1	1:2	8	2.7	7.5	22.2	809	36.2	\$2.1
	100-0	100-0 100-0 100-0		0.001	1000	0.001	1000	1000	1000 1000 1000 1000	1000	1000	100.0 100.0	1000	100-0	1000	1000

		5	Addits agod 10-34, with some natural teeth, who attend only when they are having trouble	01 000	34, WIII	3 some	nstura	toeth,	vbo att	tuo pua	y when	they ar	e bavin	g trout	oje		
								Uppe	Upper Jaw								
	į				Loft							Right	Right				
Gum condition		Molars		Prem	Premolars	g.ü		Inci	Incisors		-gi-gi	Prem	Premotars		Molars		
	00	7	9	S	4	m	2	-	-	2	3	4	57	9	7	00	
	×	%	%	%	%	%	%	24	%	×	3%	%	%	%	1%	1%	
With gingwitts	83	12.0	9.6	10.5	11.4	153	17:1	14:1	13.5	15.9	15.6	11.4	9.3	10.2	12.9	6.3	
Without gingivitis	440	643	42.2	80.8	67.0	74.2	68.5	74.8	74-8	68-2	26.6	63.5	63.5	41.0	999	45.8	
Tooth missing	46.7	23-7	48.2	29.0	21-6	10.5	144	Ξ	11.7	15.9	120	25-1	27.2	48.8	22.5	47.9	
	100-0	1000	100-0	100-0	100-0	1000	100-0	100.0	1000	0.001	100-0	100.0	1000	0.001	1000	100-0	
								Lower	Lower Jaw							ĺ	
	×	%	%	%	%	%	%	×	%	×	%	×	%	75	*	%	
With gingivitis	99	6.3	2,	96	13.5	24.3	28-4	29.9	31.4	30.5	25-4	13.5	25	1.5	9-9	3.3	
Without gingivitis	464	57.2	32.9	67.0	78-4	73-3	69.5	0.39	67.4	6.89	71.9	39.0	70-3	34.4	57.2	44.6	
Tooth missing	47.6	36.5	61.7	24-0	8.1	2.4	2.1	2:1	1.2	90	2:7	7.5	22.2	80.5	36.2	52.1	
	100-0	1000	100-0	1000	100-0	0.001 0.001	0.001	100.0	100-0 100-0 100-0	100.0	100-0	100.0	100-0 100-0	100-0	1000	1000	

(ii) Gingivitis-adults aged 16-34, with some natural teeth, who attend only when they are having treatle BASIS FOR FIGURE 7.4

BASIS FOR FIGURE 7.4

(iii) Pocketing—adults uged 16-34, with some natural teeth, who attend only when they are taving trouble

		Ad	halts ago	d 16-3-	4, with	some n.	Adalts aged 16-34, with some natural teeth, who attend only when they are having trouble	eeth, wi	ho atter.	d only	when t	ney are	Saving	trouble	1	T
								Upper Jaw	Jaw				ı			Ī
				7	Left			Ī				Right	21			
Gum condition	Ĺ	Molars		Premolars	olars	in G		Incisors	Suo		-ini	Premolars	lars	^	Mohrs	
	00	-	9	5	4	6	23		-	72	3	4	'n	ø	7	00
	34	29	25	7.	%	1%	×	*	><	%	×	%	×	×	*	%
With nocketing	82	3.6	3.9	2.7	4.5	33	6-9	4.8	2	0.9	5.7	33	3.3	2.7	4.5	55
Without nocketine	51.5	72.7	47.9	88.3	73.9	86-2	78.7	84-1	83.2	78-1	86.5	71-6	8.69	48.5	73.0	90%
Tooth missing	46.7	23.7	48.2	29.0	21-6	10.5	14.4	13	11.7	15.9	99	25-1	27.2	48.8	22.5	42.9
	100.0	100.0	1000	100-0 100-0	0.001	1000	100-0	1000	100-0	100.0	100-0 100-0	0.001	0.001	100.0	0.001	100-0
	-							Lower law	r law			1				
	34	%	25	*	×	%	*	%	%	%	%	×	%	74	%	×
With sochating	3.6		2.4	3-0	8-4	9.9	8.4	6.6	66	8.4	5.7	3.9	2.4	1:8	2.7	2
Without nockating	48.8	10	35.9	73.0	87.1	91.0	89.5	88.0	88.9	91.0	91.6	88.6	75.4	37.7	61.1	46.7
Tooth missing	47.6	36.5	61.7	24.0	2.5	24	21	2.1	1.2	90	2.7	7.5	22.2	80.5	36-2	125
	100-0	100-0 100-0	1000	100-0	100.0	100-0	1000	100.0	1000	100-0 100-0	100-0	1000	100-0	900	1000	100-0
	-															

	-		1	I	1	ı	1	ı	ı	1	ı					ı
		<	dults a	-91 pos	34, with	emos t	Adults aged 16-34, with some natural teeth, who attend only when they are having trouble	toeth,	who att	and onl	y when	they as	o bavin	g trout	ole .	
								Uppe	Upper Jaw							
					Left							Ri	Right			
Gum condition		Molars		Pren	Premolars	Can-		Inci	Incisors		Can	Prem	Premolars		Molars	
	90	-	9	2	4	0	23	-	-	2	-	4	S	9	-	00
	×	%	%	%	%	%	×	%	×	%	×	%	×	3%	×	1%
With recession	8	0.3	2	90	1.5	3.0	**	1.2	60	9-	2.7	6.0	13	0.3	2.1	29
Without recession	23.0	76.0	503	70-4	692	86.5	83.8	87.7	87.4	82.3	89.5	74-0	71.3	808	75.4	8.18
Tooth misting	46.7	23.7		29.0	21.6	10.5	14.4	5	11.7	15.9	7.8	25.1	27.2	48.8	22.5	47.9
	1000	1000	1000	1000	100.0	0.001	100.0	1000	100.0	1000	100.0	1000	100.0	1000	100.0	1000
								Lower Jaw	r Jaw							
	*	_	×	%	*	×	%	%	×	%	%	%	34	><	×	%
With recession	63	60	9-0	6-0	2.7	3.6	3.6	5.1	3,	4-8	2.7	1.2	· ·	0.3	I	9-0
Without recession	52.1	62.6	37.7	75-1	89.2	0-56	943	92.8	93-7	9-96	94.6	913	76.0	39.2	63.8	47.3
Tooth missing	47.6	36.5	61.7	24.0	2	2-4	2.1	2.1	1.2	90	2.7	7.5	22.2	90.5	36.2	52.1
	1000	1000 1000	1000		0.001 0.001	1000	100-0	1000	100.0	0.001	100-0	1000	100-0	100.0	100.0	0.00
					-		Ī									

BASIS FOR FIGURE 7.4
(0) Revession—adults aged 16-34, with some natural tooth, who attend only when they are haring trouble

BASIS FOR FIGURE 7.5

BASIS FOR FIGURE 7.5

BASIS FOR FIGURE 7.5

	_		Adults	Adults aged 35 or more, with some natural teeth, who attend for a regular check-up	S or mi	re, with	a some	natural	toeth,	who att	end los	a rega	an cine	x-nh		١
								Upper Jaw	Jaw							
				7	Left							Right	ă			
Gum condition	_	Molars		Premolars	slars	ine.		Incisors	SIG		-ine	Premotars	sure		Mohrs	
	00	-	9	s	4	3	2	-	-	2		4	S	9	-	00
	74	%	×	>:	%	×	>0	×	*	×	%	%	×	%	х	*
With calculus	1-9	11.5	7.6	44	3.2	5.4	6.5	54	5:7	¥	9-9	3.8	3.8	3.0	124	2.0
Without calculus	38.2	1.89	30.3	49.3	57-6	77.7	70.4	72.9	75.2	74.5	79.6	9.66	50.7	35.0	49.7	36.3
Tooth missing	58.7	404	62.1	459	39.2	16.9	24.8	21.7	19.1	20.1	14-0	36-6	45.5	58-0	37.9	56-7
	0.001	0.001	1000	1000	1000	1000	1000	1000 100-0		1000	1000	100-0	1000	100-0	1000	100
	t							Lower Jaw	Jaw.							
	34	*	24	14	×	*	*	×	*	×	%	×	%	%	х:	%
With colonius	2.0	4		8:11	19.7	906	63-4	67.2	68-2	624	48.6	17.2	12.1	8.4	2.0	7.0
Without calculus	41.7	1~	28.4	55.4	69.5	48,8	31.5	25.2	24.8	32.5	49.1	70-4	24.5	26-7	45.9	41.4
Tooth missing	513	48.1	949	32.8	10.8	9-0	5.1	7.6	2.0	5.1	1.9	12.4	33.4	68.5	47.1	51-6
	100-0	000	1000	0-001	1000	100.0 100.0	1000	0.001	100-0	1000	100-0	100.0	0001	100-0	0001	1000
														Base - 314	314	

BASIS FOR PIGURE 7.5 (I) Gingivide—admits aged 35 or more, with some natural teeth, who attend for a regular check-up

			Adult	pege s	15 or m	ore, wi	th some	natura	il teeth,	who a	tend fo	r a reg	Adults aged 35 or more, with some natural teeth, who attend for a regular cheek-up	dn-spa		
		ı						Uppe	Upper Jaw							
					Lon							R	Right			
Gum condition		Molurs		Prem	Premolars	ga tr		Inci	Incisors		Ş.a	Prem	Premolars		Molars	
	99	7	0	S	4	9	7	-	-	7	9	4	'n	9	-	20
	×	×	×	×	×	×	%	×	×	×	%	74	%	×	×	1%
With gingwitis	8.0	11:5	7.0	2.6	10.2	153	12.1	3	13-1	134	16.9	2	9.6	7.3	3	5.7
Without gingivitis	36.3	48.1	30.9	46.5	906	67-8	63.1	67.2	8.7.8	66.5	1.69	55.1	44.9	34.7	51.0	37.6
Tooth missing	55.7	404	62.1	45.9	39.2	169	24.8	21.7	19:1	20.1	14.0	366	45.5	58.0	37.9	56.7
	100.0	1000	1000	1000	100.0	1000	100.0	1000	0.001	1000	100-0	1000	0.001	1000	0.001	0000
			ĺ					Lower Jaw	r Jaw							
	*	><	×	%	%	%	%	%	%	%	×	*	×	%	75	×
With gingivitis	9.2	11.8	4.8	10.5	17.8	26-1	26.8	29.3	28.7	293	27.1	17.5	121	4.5	8.0	8.0
Without gingivitis	38.8	40.1	30.6	56-7	71-4	73.3	63.1	63-1	64.3	9-59	71.0	30.1	54-5	27-0	44.9	404
Tooth missing	51.3	48.1		32-8	10.8	9-0	5.1	7.6	7.0	5.1	1.9	12-4	33.4	68.5	47.1	51.6
	100-0	100-0 100-0		0.001	0.001	1000	1000 1000 1000 1000 1000		0.001	1000	0.001	1000	100-0	1000	100-0	1000
				1	1	1		-			Ì	Ì	Ī			

BASSS FOR FIGURE 7.5
(m) Preferine—adults axed 35 or move, with some natural teeth, who attend for a regular check-up

			Adults	aged 3	5 or mo	re, with	h same	natura	Adults aged 35 or more, with some natural teeth, who attend for a regular check-up	who att	end for	a rega	lar cha	dn-x		
								Upper Jaw	Jaw							
				12	Left							Right	Ą			
Gum condition	Ĺ	Molars		Premolars	slars	S in		Incisors	suos		Can	Premolars	olars		Molars	
	00	-	9	'n	4	9	~	-	-	23	m	4	2	9	-	00
	>0	%	3%	%	*	%	%	%	24	%	×	><	×	%	%	*
With pocketing	4.8	8:3	14	5.1	1.9	8.0	8.0	6.7	7.3	7.0	8.9	6.1	3.5	4.8	6-4	4.1
Without pocketing	39.5	51.3	33.8	49.0	547	75-1	67.2	71.6	73-6	72.9	77.1	57.3	51-0	37.2	55.7	39.2
Tooth missing	55.7	40.4	62-1	45.9	39.5	16.9	24.8	21.7	19:1	20-1	14-0	36.6	45.5	28.0	37.9	26.7
	100-0	1000	0.001	1000	100.0	0.001	100.0	100.0	100.0	100.0	100.0	0.001	100.0	1000	100-0	1000
	L							Lowe	Lower Jaw							
	%	%	3%	*	*	*	×	%	×	%	×	24	%	×	%	×
With pocketing	1.9	8.4	3.2	64	8.0	12.7	6.6	9.6	8.9	6.6	12.4	2.6	64	1.9	4	5.4
Without pocketing	42-6	47.1	32.2	8-09	81.2	86.7	85-0	82.8	84-1	85-0	85.7	80.0	60.2	29-6	48.8	43.0
Tooth missing	513	48.1	9-99	32.8	10-8	9-0	5.1	7-6	2.0	5-1	1.9	12.4	33.4	68.5	47.1	51.6
	100-0	100-0	0.001	100-0	1000	0-001	100.0	100.0	100-0	100-0 100-0	100-0	100-0 100-0	100-0	100-0	100.0	100.0

Base - 314

BASIS FOR FIGURE 7.5

(iv) Rocession—salults aged 35 or more, with sone natural teeth, who salural for a regular check-us

			Adult	poës s	S or m	erc, wa	th some	e nation	at tooth,	who a	ttend fo	r a reg	Adults aged 35 or mere, with some natural teeth, who attend for a regular check-up	dn-sp		
								Uppe	Upper Jaw							1
					Left							R	Right			
Gum condition		Molars		Pren	Premolars	S. in		Inc	Incisers		Cin-	Preg	Premolars		Mohrs	
	00	7	ø	52	4	6	73	-	-	~	3	4	20	9	-	00
	ж	%	%	%	%	%	%	%	%	%	%	%	34	×	%	×
With recession	3.5	2.0	5.7	7.0	8.6	=	4.5	2.5	6:1	2.9	9.6	8.0	20	6.7	2.6	2.9
Without recession	40.8	52-6	32.2	47.1	52.2	72.0	70.7	75.8	79-0	77.0	764	55.4	47.5	35.3	54.5	40.4
Tooth missing	55.7	404	62.1	45.9	39.2	16.9	24.8	21.7	19:1	20.1	140	36.6	45.5	58.0	37.9	56.7
	0.001	1000	100.0	1000	100.0 100.0	1000	0.001	100.0	0001	100.0	1000	1000	1000	1000	1000	1000
								Lowe	Lower Jaw							
	×	%	%	%	%	%	%	×	%	×	%	×	%	×	%	×
With recession	2.5	2.2	1.6	2.0	10.2	=	96	=	9.6	9.5	13.4	10-8	9.8	90	3.5	2.2
Without recession	46.2	49.7	33-8	60.2	79.0	88.3	85.3	81.3	83.4	85.7	84.7	76.8	58-0	30.9	49.4	46.2
Tooth missing	51.3	48.1	9.19	32-8	10.8	9.0	5.1	7.6	2.0	5.1	1.9	12.4	33.4	68.5	47.1	51.6
	100-0	1000	0.001	1000	100-0 100-0	1000	100-0	1000	100.0	1000	0.001	100.0	100.0 100.0		1000	100-0
				Ī	1				1							

CONDITION TOO INFREQUENT TO PRESENT DIAGRAMMATICALLY

(c) The distribution of hose tech around the mostle, for adults aged 35 or more, with some natural teeth, who attend for a regular thick-up

		٧	Adults aged 35 or more, with some natural teeth, who attend for a regular enock-up	ged 35 c	or more	A Maria					l	-			-	
								Upper Jaw	Jaw							
				1	Loft							Right	26			
Gum condition		Molars		Premolars	olars	ij.ĝ		Incisors	Suo.		g.a	Premolars	olars	_	Molars	
	00	-	9	s	4	т	2	-	-	7	3	4	S	9	t-	00
	. 25	125	*	1%	*	×	*	×	*	×	%	%	%	%	%	*
With south looss	1	1	1	1	1	1	1	1	1	ī	1	1	1	1	1	1
Without tooth loose	44.3	59.6	37.9	54.1	808	83.1	75.2	78.3	608	666	860	63-4	24.5	42.0	62.1	43.3
Touch missing	58.7	-	62.1	45.9	39.2	16-9	24.8	21.7	19.1	20.1	14-0	36.6	45.5	58-0	37.9	56.7
Second House	1000	-		1000	100.0	1000	0.001	1000	0-001	100.0	0.001	100-0	0.001	100-0	1000	1000
					1			Lower Jaw	Jaw							
	34	25	×	74	*	×	><	×	×	*	%	74	×	×	%	%
Table south loose	1	1	1	1	90	1	i	1	0.3	1	1	ı	0.3	1	1	0.3
Without tooth loose	48.7	51.9	35-4	67.2	988	9.66	646	92.4	7.75	6:96	98.1	87-6	66.3	31.5	52.9	48.1
Tooth missing	51.3	48.1	64.6	32.8	8:01	9-0	2.	7.6	20	5.1	6:1	12.4	33.4	68.5	47.1	51-6
	100.0	100-0	100.0	0001	100-0	1000	100-0	1000	0.001	0.001 0.001	1000	100-0	0001	0.001	0001	1000

Base - 314

BASIS FOR FIGURE 7.6

8 % % 8-9 73.8 8 % % % % % % % % % % % % % % % % % %	Molars 6 7 % % % 7.0 11.2 77.6 66.3 00.0 100.0 6.2 8.9 12.0 22.6		Right Premalura 4 4 5 4 4 5 8 22.3 56.0 00.0 10.0 00.0 00.0 00.0 00.0 00.0 0	Pren R 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 % % 7.7 % 49.4 42.9 100.0 1 % % 7.7 % 10.0 0 17.0		Upper Jaw Uppe		2 2 7.9 47.0 47.0 45.1 100.0 100.0 7.8 8 7.7 8 1.67 1.67 1.67 1.67 1.67 1.67 1.67 1.67	Opp. 8 % 8 % 8 % 8 % 8 % 8 % 8 % 8 % 8 % 8	Left Premolars 5 4 4 5 % % % % % % % % % % % % % % % %		Pren 29-2 1000 174 174	Premn P Premn P P P P P P P P P P P P P P P P P P P	Mohars 7 6 5 5 7 7 6 6 5 5 7 7 7 6 6 5 5 7 7 7 7
68.3		-	45.1	28.8	64	6.2	2	8.3		7.5	6.2	25.3	46.4	1 8	83.9 46	-
26.1	-	-	36.9	42.2	9.62	0.71	_		-		29.2	44.7	16.2		_	10.7
9.6	_	_	18.0	29-0	049	8-92	_		_	_	949	30-0	+	2	_	2.4
%	-	L	×	×	%	%	%	*	-	%	×	%	\neg	26	_	×
							WE.	Ower 3	H					- 1	-	
				0.001	0.00					8		1000	_	8		1000
69.4	_		64.2	63-4	39.3	45.9	_	_		45		64.2	90	3		89 100
23.8	-	_	360	32.3	52.0	49.4	82.2		_	_	_	29.8	~	á	_	9
8.9	_	_	3	4.3	8.7	2.7	8.5	7.7				0.9	2	2		7.2
%	-	╄	%	×	%	25	%	×	Н		×	×		×	_	×
00	H	۴	'n	4	-	64	-	_		2	~	4		n	_	9
	Molars		tolars	Prem	g.ii		2	Inciso			Q a	olars	E (E		
		ŀ	ă	2								Ja.	-			
							law.	Jpper -								
								tosth,								Authus ages 33 or more, With Seine fattural teeth, who attend only when they are lawing trouble

BASIS FOR FIGURE 7.6
(B) Grapiwits—adults aged 35 or more, with some natural teath, who attend only when they are having trouble

		Adalt	page s	35 or m	ore, wil	th some	natura	d teeth,	who at	tend on	dy who	a they s	Adults aged 35 or more, with some natural scell, who attend only when they are having trouble	ng trous	ole	
								Upper Jaw	Jaw							
			1	12	Left							Right	#			
Gum condition		Molars		Premolars	plans	-di-si		Incisors	suo		9.8	Premolars	dars	^	Molars	
		2	9	'n	4		63	-	-	7	8	4	S	9	2	00
	34	34	24	35	%	14	×	*	*	×	×	*	×	×	34	×
With sensitific	2.0	16	3.6	8	9.8	16-4	13.5	12.4	143	14-1	15.7	8.3	2.1	9-9	7.5	5.6
Wildren almondale	101	25.9	12.6	26.9	26.3	43.0	41.4	46.8	46-4	43.0	45.0	28.3	27.7	160	26.2	25.0
Touth mission	62.7	65.0	97	63.8	64-2	40-6	45-1	40.8	39.3	42.9	39.3	63-4	64.2	9-22	6.99	8.4
Loons missing	100-0	1000	100-0	1000	1000	1000	1000	100.0	1000	1000	1000	100-0 100-0	1000	1000	1000	0001
								Lower Jaw	r Jaw							
	2	34	25	35	%	×	3%	200	34	%	%	%	%	%	%	%
Wildle administra	2.5	83	4.8	13.7	20.5	35.6	38.3	39.5	39.8	40-0	36.4	20.3	13.7	3.7	8.3	22
Without gingivitie	242	24-2	11.3	39.9	54-2	58.2	54.2	52.2	51:1	53.8	57.2	50.9	41.2	14.5	23-2	26.5
Tooth mission	68.3	67.5	83.9	46.4	25-3	6.2	7.5	2	9.1	6.2	6.4	28.8	45:1	81.8	68.5	68.3
TOOT TOO	1000	1000	1000	100-0 100-0	1000		0.001 0.001	100-0	1000	1000	1000	1000	100-0 100-0 100-0 100-0 100-0 100-0	1000	0.001	1000

(iii) Pocketing—adults aged 35 or more, with some natural tools, who assend code.

		Adi	age sur	35 or	тоес,	with soc	Adults aged 35 or move, with some natural teeth, who attend only when they are having trouble	nal teet	ohn 't	ttend	only wh	en they	are ha	ving to	ouble	
								Uppe	Upper Jaw						ì	
				Ì	Len							Ri	Right			
Gum condition		Molars	_	Pren	Premolars	Ŗª		Inch	Incisors		Can-	Prom	Premolars	L	Molars	
	00	_	9	S	4	-	69	-	-	63	8	4	S	0	-	00
	%	×	×	%	72	%	×	3%	×	%	×	×	%	%	1%	34
With pecketing	20	7.7	4.8	9.6	4	101	8.9	7.9	8.5	8.8	10.8	5.0	4.8	4.3	8.5	2.0
Without pocketing	31.7	27.3	13.4	30-6	31.7	49.3	46.0	51.3	52.2	48.6	49.9	31.6	31.0	181	25.2	23.6
Tooth missing	62.7	65.0	81.8	63.8	2.2	40.6	45.1	40.8	39.3	42.9	39.3	63.4	64.2	77.6	1.	69.4
	100.0	1000	100.0	100.0	1000	100.0	1000	0.001	1000	100-0	1000	100-0	1000	1000	1000	100.0
								Lowe	Lower Jaw							
	%	%	%	%	%	%	%	3%	%	%	%	×	%	%	%	3%
With pocketing	3-7	99	2.1	7:7	13.3	21.3	22.8	24.0	24.8	24.0	20.7	9:11	8.7	2.5	4.3	2.7
Without pocketing	23.0	26.5	14.0	45.9	61.4	72.5	69.7	67.7	1.99	8.69	72.9	59.6	46-2	15.7	27.2	29.0
Tooth missing	68.3	67.5	83.9	464	25-3	6.2	7.5	8.3	9.1	6.2	64	23.8	45.1	81.8	68.5	88.3
	0.001	1000	100.0	100-0	100-0 100-0	100-0	1000	100.0 100.0	100.0	0.001	100.0	0.001	100-0 100-0	100-0	100.0	1000

(ir) Rocession -- adults aged 35 or more, with some natural teeth, who attend only when they are having trenkle BASIS FOR FIGURE 7.6

		Adults	bega s	S or ma	ore, wit	th some	natura	toeth,	who at	to pue	dy who.	they a	Adults aged 35 or more, with some natural teeth, who attend only when they are having trouble	ng trou	ole	T
	1							Upper Jaw	Jaw							
				12	Left			1				Right	pt.			٦
Gum condition		Molars	Г	Premolars	-	di.e		Incisors	200		9.8	Premolars	lars	2	Mohrs	
	00	2	9	*	47	m	23	-	-	73	6	*	'n	9	7	
	8	- 20		%	>4	%	74	%	×	34	×	>*	%	*	*	%
With mosesion	4.6	23	6.2	5.0	4.3	10-6	4.3	9:0	4	5-4	9.8	4-1	9.6	5.8	0.9	3.7
and and annual or	1.03	2,90	12.0	31.2	31.5	48.8	50.6	542	55.3	51.7	51.2	32.5	30.2	991	27.7	56.9
Without recession	69.7	65.0	90	63.8	64.2	40.6	45.1	40.8	39.3	42.9	39-3	63.4	64-2	27.6	663	\$ 69
Toola missing	1000	1000	100.0		100.0	0.001	0.001	1000	0.001	100-0	0-001	100.0	0.001	0.001	0.001	0.001
			1	1				Loner Jaw	Jaw							
	>	0	3	2	2	35	*	*	*	×	%	×	%	%	%	74
west	2 5	5.2	2.3	126	191	21.9	21:1	24.8	23.4	21.7	22.2	13:3	10.4	2.1	4.8	5.3
Will recession	78.4	27.3	13.8	43.9	58.6	71.9	71.4	699	67.5	72.1	71.4	57.9	44.5	161	26.7	28.4
Touth missing	683	67.5	83.9	46-4	25.3	6.2	7.5	8.3	3	62	6-4	28.8	45-1	81.8	88.5	68-3
	100.0	100.0	100-0	100.0	0-001	100.0	100-0 100-0		1000	0.001	100.0	100.0	1000	100.0	0001	100.0
	_															

CONDITION TOO INVESTOR TO PRESENT DIAGRAMATICALLY

(v) The thurburion of bose tech around the mouth, for shalles upol 35 or more, with some natural techt, who attend only when they we haring trouble

	L	Adu	dts ago	35 or	more,	vith sor	ne natu	ral toes	ada c	patter	l and			Adults aged 35 or more, with some natural touth, who artered ordered and		
				ı				Upp	Upper Jaw		in fine	See Care	910	ving tro	enge	
					Loft							×	Right			ı
Gura condition		Molars		Pren	Premolars	Can-		Inc	Incisors		Q.	_	Premolars		Molars	
	∞	7	0	'n	4	6	~	-	-	12	-	4	vs.	v	1	~
	*	_	×	*	%	×	×	%	%	%	%	35	%	1%	1%	3%
With tooth loose	90	96	98	9	9.0	1.2	89	2	0.1	1.7	7	0.8	0-4	0-7	0.5	10
Without tooth loose	36.7	34-4	17.4	35.4	35.2	58.2	54.1	58.2	59.7	55.4	59.3	35.8	35-4	21.4	33.5	30.2
Busseu mason	62.7			63.8	64.2	40.6	45.1	40.8	39.3	42.9	39.3	8.8	64.2	77.6	699	69.4
	0.001	100.0	1000	100.0	0.001	100.0	100.0	0.001	10001	0.001	100.0	0.001	1000	0.001	1000	1000
								Lower Jaw	Jaw							Ī
	200	%	%	ж	*	×	%	×	%	%	34	%	%	%	%	25
With tooth losse	0.4	0.8	0.5	0.1	7	2.9	4.1	4.6	4.3	3.5	2.9	1.7	1.2	0.4	90	90
Without tooth loose	31:3	31.7	15.9	52.6	73.3	6.06	88.4	87.1	998	90-3	20.7	69.5	53.7	17.8	30.9	31.3
Looth missing	68-3	67.5	83-9	46-4	25.3	6.2	7.5	8.3	1.6	6.2	9-9	28.8	45.1	89	88.5	683
	0.00	0001	100.0	1000	100.0	1000	0.00	100.0	0.001	100.0	0.001	100.0	0.001	100-0 100-0 100-0 100-0	100-0 100-0	0.001
				I												

APPENDIX F

THE DENTAL EXAMINATION CRITERIA

DIAGNOSTIC CRITERIA

1. Dental caries

In general, diagnosis was determined primarily by visual means. A special probe, with a smooth tip of diameter 0-7mms was provided, but the probe was only used to confirm or reject the visual diagnosis. Staining and pigmentation were not recorded.

PR until passes nutfaces. If there was visual evidence of a lesion, this was confirmed by the use of a probe. If the lesion would admit the probe, or if the pose provided some evidence of softening at the base of the lesion, or if the lesion itself provided some resistance to the removal of the probe, then the lesion was deemed to be carlous. Confirmation by the probe was not belief and deemed to be carlous. Confirmation by the probe was not belief and of the problem of the of untermitted carnel, even though the cannel lesion was small.

Smooth surfaces. Any break in the surface enamel had to be demonstrably ont to the probe before the leads was considered to be earloss. Fractures, hypoplastic areas, hard arrested earles and enamel etching, were not considered to be evidence of a frank carious leadin. Again, confirmation by the probe and not required where there was extensive opacity, especially in anterior teeth and other interproat areas where the actual lesion was inaccessible.

If any doubt remained after applying the criteria for caries, the diagnosis made was 'sound'.

2. Periodontal condition

Gingival inflammation. Inflammation was deemed to be present around a tooth if the colour of the gingiva was demonstrably redder than healthy tissue in the same mouth, and if there was a loss of stippling in the area in question, which resulted in a 'shiny' appearance. Diagnosis was not made on the basis of less of contour abone.

Periodontal pocketing. If the pocket was 3mms or more deep anywhere around a tooth, the diagnosis was positive. Pockets which were associated with the distal halves of last standing molars were ignored.

Calculus. Food debris was ignored, but the presence of any quantity of supraor sub-gingival calculus was recorded as positive.

Gingival recession. If there was at least 3mms vertically between the amelocemental junction and the gingival collar anywhere around a tooth, the diagnosis was positive.

3. Dentofacial anomalies

Cleft palate -self-explanatory

Prognathism —positive only if condition was considered to be disfiguring.

Deep overbite —positive when, with jaws closed, the lower anterior teeth were almost or quite invisible behind the upper anterior teeth.

Crowding —positive if any tooth bad been forced entirely or almost entirely out of the line of the dental arch so that it was entirely non-functional. Minor irregularities were ignored, —self explanatory.

Cert in — self explanatory.

Retrognathism — positive only if condition was considered to be disfiguring.

Open bite — positive when a space of 3mms existed between the incisal

edges of the upper and lower anterior teeth when the jaws are closed.

—positive if each tooth in either arch is standing as an isolated unit, having no contact with its neighbours in

Any other conditions of interest were also recorded.

4. Dentures

Fit. The fit of the denture was recorded as unsatisfactory if, on opening the mouth, either denture was unsended, or if 2' or nore movement was possible in any direction when the denture was sented against the supporting tissues. The fit was also recorded as unsatisfactory if, in occlusion, the dentures men in one or two places only. In all other cases the fit of the denture was recorded as assistance.

Care. The care of the denture was considered unsatisfactory if there was any evidence of long-standing staining, scale or debris. Very recent food debris was ignored.

Condition. The condition of the denture was considered unsatisfactory if there

was any evidence of it being cracked, broken or chipped, or if it bad any missing or worn out teetb.

Denture inflammation. Denture inflammation was recorded in three grades of severity, indicated by one, two or three positive sign recordings.

redness on or associated with a denture bearing surface in one place only—not exceeding an area of ½ sq. cm.
 as above but occurring in more than one place, or exceeding an

area of § sq. cm. +++ generalised inflammation over at least § of the denture bearing

surface.

Denture ulceration. Again there were three grades of severity, similarly denoted.

 a break in the epithelial continuity on or associated with a denture bearing surface, in one place only and not exceeding an area of the surface.

++ as above but with two lesions present.

+++ as above but with three or more lesions present, or any number of lesions exceeding \(\frac{1}{2} \) sq. cm. in size.

Bone destruction. This is rare, but may be found in the palate of denture wearers using a suction pad.

+ mild destruction.

++ advanced destruction. +++ palatal perforation.

TTT Panta Panta

1. Teeth

'Remarks' (Rem) Column: entries in this column refer to the whole tooth.

M —Missing tooth.

X —Decayed tooth for extraction i.e. past routine restoration.

PX —For extraction due to periodontal disease.

PC —Porcelain or Acrylic crown.

DENTAL EXAMINATION CHART CODES

GC -Gold crown.

Br -Tooth replaced by bridge.

Ab -Abutment tooth for bridge.

ROT —Rotated tootb.

Er —Erupting tooth (part but not all of the occlusal surface visible).

DT —Erupting tooth (

RF —Root filled tooth.

Fe —Fractured tooth, fracture in enamel only.

Fd —Fractured tooth, fracture in dentine.

Fp —Fractured tooth, fracture in pulp.

H —Hypoplastic tooth.

DIS —Grossly displaced tooth (reason noted).

A —Abscess associated with tooth.

A —Abscess associated with tooth.

'Surface' Columns—Mesial (M), Occlusal (O), Distal (D), Lingual (L), and Buccal (B).

X —Decayed surface.

A —Amalsam filling.

A —Amalgam filling.
G —Gold filling.

S —Porcelain or silicate or acrylic filling.

AX

Filled surface with decay also present.

SX J

Gingivitis 'G' column

'+-'
Inflammation present round marked tootb.

Pocketing 'P' column

'+'
Pocketing in excess of 3mms around marked tooth

Calculus 'C' column
'++'
Calculus present around marked tooth.

Recession 'R' column
'+'
Gingival recession in excess of 3mms from A/C junction.

3. Dentures

Column I — A —dentures worn night and day.

B —dentures worn day only.

C —dentures worn irregularly

(i.e. meals or 'company' only).

D —dentures worn never or hardly ever.

Columns II — A —satisfactory.
IV — B —unsatisfactory.

Column II — 'aid' includes suction pads, pad buttons, and gum tragacanth (state which).

4. Denture Inflammation

+ mild.

++ moderate. +++ severe.

APPENDIX G

THE QUESTIONNAIRES

This appendix consists of the documents used in this inquiry. The information collected on them was given voluntarily and is confidential. It has been used for statistical purposes only, and consequently no particular individual can be identified as having taken part.

DON'T AL MEALTH ss 411 DEPROPREDICTORY QUESTIONAINE CONFIDENTIAL Person Ka 19 938555 D). - 1 Liberta No. 15 ineluded . Auth. No. ______ Date of Examination _____ No. of calls _____ IF NO DITERTIFY CRIMING - WHY ROLD P NO REALITATION COTATEED - WIT HOUT

We are interested in cost satural teeth ann false teeth, but first I wook about notward teeth. This privace (ARID DIR CASO A) three the materal to here. At the top people swantly sent off wide of anise from teeth, and note 4 or 5 double, beak teeth; at the batter is in the mars, 6 single fit 4 or 5 double, beak teeth; at the batter is in the mars, 6 single fit 4 or 5 double, beak beath or and side.	esth people can	
MONITORNING OF CARD &		
Nave you still got some of your naturel teeth or bare you lost them all?	e natural teeth	
213 200	e natural teeth	ASE Q.2-10
Lort the	ee all	00 70
		SUPPLET
IF CODE (1) ASK Q.2-20	7 7106 3	1
te de la companya de		
I'd now like to talk about the teeth you have look. The picture might bel	p yes.	
709 18829		
Oan I start with your top teeth, have you lost any of the 6 single front cost, at the top? IF TEE (A) Can you show so from the picture, which case you have lost?	Lost stee	4
Here you lost any double tooth, at the top, on the left hand side? Lost some		
IN TES (8) Can you show me from the garders, which come you have loost	Lost some	2
Have you lost any double teeth, as the top, on the right bent mide?	Lost com	D
IF TES (D) Can you show so from the pusture, which cars you have look?	Not	3
CROSS TRACTIC MINISTER OF DIAGRAM		
ACTION THEIR		1
Can I now mak shout your bottom teeth, have you lost say of the δ single front oner, at the bottom!	Lost some	:
IF IEL (E) Can you show me from the picture, which once you have last?		
No.		
Have you look may double tooth, at the bottom, on the left hand side?	Lost some	
IF TEL (F) Can you show so from the picture, which come you have lost?	Not	5
The second secon		
Nave you lost any double teeth, at the bottom, on the right bund mide?	lost some	5
IF IEI (1) Can you show me from the picture, which ones you have logi?		

411	DODINAL SEALTH	Ares Se.	Serial No	, Pera	as. Fev
	Chebiconorder Chebi				
EAS 3	ATURAL TERMS ONLY				
	CHARLE CODE 2				
					-
Some people have a lot of trumble with t (If you were to) (a) Whenyou are esting chocolates, or an any twingen of teotheshe?		En.s Doe	statinges		
(If you were to) (b) When you are esting an ice cross, o does this make your teeth ache:	r Grunding a very cold dr	19k	Tes		5
(e) Socretimes, if there are may below a year tumple. As for any year tumple.	n your teeth you can feel there may holes in you	them with teeth?	Holes Not		7 0
(4) When you are eating do you ever an reason of it yet (3) (1) Can you tell no for what rea		th for may	Tes	-	3 4
ty, Ower the limit five years, have the ge		Charles II	not wider	+	. 1
13. Over the last five years have your te than they used to or not?	orth come to lack longer	Bot .	k longer	-	. 4
14. Do you think that any of your teeth s	re at all loose?		Yes No .		7
					_

_		
15. Apaz	urt from trouble with their teeth some people here trouble with their game.	
(n)	Do your gues even feel asse or tender?	2
	***************************************	0
(6)	Do any parte of year gues ever look or feel molles, for instance	
	around one or two teeth?	A
		0
	IF TES (A)	
	(1) Do they feel or look swallen just	
	occasionally or fairly often? Swellen just occasionally	5
545	Do your gons over blood? Tee	
(0)	To your guan ever blood? Tee	0
_		
16. Do y	you have any kind of trouble with your game or mouth which	
1 th	wen't mentioned?	. 9
	DF YES (b)	
(4)		
(4)	NOW BOLD OF FEMALES.	

17. If y	we were to go to the deptirt tomorrow, do you think you would	
need	eces treatment, or no treatment at all?	
_	Same treatment	A
0		0
	IF SOME THEATMENT (A)	
(1)	Now many teeth would need treatment do you think? Youkey	
	ARTIE IN WAL GLEEK WINNERS	
	No. 10 to 100 to	

18.

	the dentiet with an aching heak torth	would you prefer	
the dentiet to	take it out or fill it?	Table 15 Out	1
0		Other (SPECIFF)	3
44 74 mm mmt 44	the dentist with an aching front tooth	would you prefer	
(b) If you went to	take it out or fill it?	Take it out	. 1
			6
	I you expect a filling in a tooth to la	et? Meable you	
(a) How long would	test a year, five years, tan years, or	longer than	
ten years?	and a proof con party		
		A year	2
		10 mages	3 1
		10 years	. 4
		Other (SPECIFE)	5
			_
19. If you were to lo	see all your back teeth, what would you		
		sampe without felse teeth	. 6
			. 7
		now the rest of your teeth out and have all false teeth?	
		other (SPECIFY)	9
	Committee of the committee of the	OTHER (DODGETAL)	
		1	- 1
		1	- 1
20. A lot of people thought of havin	eventually have to have full dentures; g all false testh	do you fied the	7
		a little upsetting	
		Ent to are characteristic treatment	
		1	
on, he was know how	r much it costs yet moundays to here a s	all set of false teeth	
under the Estin	enl Health Service?		
		Yes	
		30	
IF TES CO	0		
	does it cret?		
(7) NOA GYUP			

the	east to find out from people who were at least 20 before the war (1999), how they got ir decial treatment in the days before the war.	
(Cau	a I obesk) were you born before 1919	1 0 Go tq 9,23
	TP BOOK SEPTEME 1919 (1)	4.23
(n)	Then you had a tooth that meeded seeing to, in the days before the war, did you go to a destint, or a hospital, or did you go roundare also?	
	Perhiat	3
	Nospital g	4
	Soth	6
(1)	What were your reasons for cheesing to go to?	
	The state of the s	
(b)	Defore the war did you ever belong to a Friendly Seciety, Benefit Society, Approved Society, Encurance Group or similar organization?	
	Yee	1
	IF TRD (1)	0
(t)	What was the zame of the one you belonged to?	
	and the second s	
(ti)	Dud this organization help with debtal expenses? Yes	7
	No	0
(e)	In the days before the war did you over get any help towards the cost	9
	of destal treatment, or any free dental treatment?	
	Help or free	4
		,
no.	IF 1819 On PRIN (4) Where did you get this from	
(17	scars, orn hor fac sure those.	
- 1		
- 1	i	ľ
		1
		1

3. (a) Wan y	on were a child were you ancouraged to clean your tackh	
		Trify Both	1
		ne ever hime your bardh looked at by a submed destinat? See the second of the second	
	for i	from the achool desite, did you are any other destict, or go to a heapital hesial irectance, before you were 16 years chif Te 2F TES (8)	B
0	(s)	As a while, did you go to the destilat for a regular check up a separate check up se operatoral check up or only when you were harded typocits with your teetal?	2
24,	(a) When	you wonk to the demind, see while, did you ever here any seemed expressive? Ten	6 7
	(1)	Note we 15 that sade it updatesout?	1 1
-	(b) When	n you've been to the dealist, as as edult, here you ever had unjies east experiences? Ter	
	(6)	ZF TES (0)	
-		240	

(a) Tow or	ften do you elean your teeth, now?		Never	0 Go to
	at time of day do they clean them?	RING ALL	Before hreakfast After breakfast Midday Ton them After evening smal Last thing at night Other (SPIET)	2
	BRING DTC. ASK 'IS THIS BEFORE OR A			6
(c) 30 yo	u use toothyaste, toothyombur, or us toothyaste in toothyaste in toothyaste in	eccething else to	Toothpaste	1
(1)	What partirular make are you woll	zer		
(11)	Does it contain fluoride, or not	9	Tes No D.K	7 5
(8) Is yo	my toothbrush made of briefle or a	ylon?	Bristle Nylon D.K.	2
(e) When	it was new, was your toothbrogh has	rd, mediam, or ex		6
			Nedgem	7
(f) People quick	e clean their teeth in different w ily and come people clowly. Shout I	how often, do you!	have a new toothboush?	
-	you pretend that you have a toothi			-
pox à	. you pretend that you have a toomn	PA SECOND DESCRIT	eros.	
(s) <u>2579</u>	ON CONTRACTS CASED AVE TO LOS LINEAR LINE MELLINE.		pefultely sorrect Probably secreet Probably incorrect Definitely incorrect	A 7
. Has a der	ntist ever demanstrated to you hower commons	heet to clean you		1
			en	

-		to an about at the best and of Secondar Dider transport nov
7.	(a) He	we you been to the dentiet since the beginning of Secendar Under transaction of 9 at's about 6 menths ago?
	12	to A
		TF X0 (A)
	(b)	Have you been to the destirt since last
		Mare you been to the destire sizes saw. 2 May (Jame), that's shout a year ago? 50 2
		12 H0 (B)
	(c)	Shout how long ago wan your Nove than 1 up to 2 years ago
		last wield to the dentiet? Nove than 1 up to 2 years ago
		Here than 2 up to 3 years ago
		Norw than that (DFDDITT)
		Sore than 1 to 0 5 years as
		4,101
-		
28.	The 2	not time you went to the dentiet what made you go? Wan it because you ware having
	2000	
		Trendle with heath 4 Cheak up 5 Chear (ITELET) 1
		Check up
		(ther (STECTFT)
ı		
ú		in general do you go to the destint for a regular sheek up
23	107.7	
		or only when you are haring
		trouble with your teath? 9
		IF DOES YOR RECOLLER CHECK UP (7)
	(9)	Dose the dentist send you a reminder when it is time
		to go for your ment check up?
	(a)	Do you make the appointment for your meet check up
		at the red of your last sat of treatment 5
		when the dentiat mends you a reminder
		op whom you feel it's time to go marin' 6 other (Efficien)
		other (Signal)
		IF ORD FOR OCCASIONAL GREEK UP (0) OR ONLY WHEN HAS TROUBLE (9)
	(4)	The last time you wanted to mee a destint how for shead did
		you have to make the appointment with his, once you wanted one?
		The same of the sa
		IN CREAT COST MAIRS INCO THOUGHTS (9)
		IF ONLY COSS NOTE THAT THE COST
	(+)	What ie the main reason for you not going for a regular chark up?
		ere er
		V
	-	261

30. When people go to the destist for a sheak up, or because they've get trackle withour tests, they receives have to make one wint and reastines neve than one	th visit.		
(a) The last time you went to the dentist did you make one wisit or coveral win	1807		
	wisit	1	
IF ENTOUL (A)	ers1	A	
(b) About how many visite did you make for that course (set) of treatment?			
	_		
31. In (all) the visit(s) you made to the dentist (for that set of treatment) what did you have done?			
Artz ere har zwa eves.	32007110013		
		Tee No	э.
Examination (check)	5		Н
I-my	6	. 7 6 .	
To, of fillings Pillings (stoppings)	1	1 .	l
	1		
No. of teeth		. 7 8 .	1.
Scale (clean, scrape) and pelieb	1	. 2 3 .	
Other (SPECIFE)	0		
manual control of the			
		ì	ļ
33. Was your treatment under the National Dealth Service or was it private?			П
National Health	Service		
Zrivate			1
THE PERSON OF TH			L
_			1
33. Grabi you tell se how much the whole treatment cort you?	Tes	A	1
	No	5	ı
IF THE (A) (a) Her much did it count?			L
(a) How man out at 1990;			١
de la companya de la			١
		-	1
34. (a) Did you feel very exhicited, fairly exhicited or not exhibited			L
with the treatment you had?			1
Very est 7airly s	iefied stisfied	1	1
Not mate	sfiled	9	L
(b) What was it about the treatment that made you feel (as above)?		-	1
		1	1
			ı
			1
			1
			1
in many continues and many many many many many many many many			
240			
252			

34.

34. (a) Is	there a particular decist (or group of parkners) whom you usually to, or do you go to a different destint seak time you need treatment?
		Ussally mane dentist (or group) 1 Effected
(۰) [IF COURTY SAWS CONTING (1) That is the address of the practice?
	6)	About how many milesit from here's
	o}	What's the mass of the decriet you go to?
	(d)	To you seemly go tokin direct from home or from work?
	(e)	New long does it usually take you to get there?
	(r)	Now did you come to obsess this particular deskiet?
	(e)	What do you like about your dectief? (RECORD SPECIALIZED)S RECLICES)
	(b)	If you stay in this firstrict will you continue to go to the
	(a)	dentiet yes go to now, or will you have a change? Constant
	(1)	What are your reasons for wanting to change'
		and the second s
		IF ORE TO DIFFERENT REWITERS (2)
	(1)	Is it difficult to get an appaintment with a dentiat?
	00	Ny do you shange your donlieb?
	1,44	To be a series of the series o
		The state of the s
		The action of the second secon

	_
25. Excluding the school demice, about her warp different decture have you been to, in your lifetime? Number	
77 NEET CLAS CES (A) The action changes optioned become 222 world to try a different dealbaf?	
3%. (a) Here you erre had an injection to hill the pain Heat Heat Heat Heat Heat Heat Heat Heat	1
(b) Ener you ever had an X-ray taken of Sed X-ray at your teelest Sed X-ray	6
37. Here you ever been sent, by a destirt, to a hospital for dental treatment? Yes 12 YES (1)	à
If YES (1). (1) The large age is it elsee he set you be the heapthal? (ise age	
(ii) Why did be send you to the hospital?	
30. (a) What do was find most wagleseesk during a visit to the dentist?	
	-
(b) What each of qualities do you think make the best desthister? (core of coress)	
10.10 Feb. 20.000 (10.000 pm.)	
m tadm	-

01. CAMP FIGHTON										
		(n)	(b) (c) (d) . (e) Ser Ace hast Nacital Status Implement Status							
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	3		1 2		3	4	5	7	8	9
	4		1 2		3	4	5	7	٥	9
	5		1 2		3	4	5	7.	8	9
	6		1 2		3	4	5	. 4	8	9
DDD, At what age file you finish that tree education? 1										
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	230	#3787								
155, ACRESCATED 15 K.M. THE REPORTED TO										
	(13) SEW THE THESE PROBLETS (8) (13) SEW THE									

Limits Mildeling of lend by a presented to control county greater feeth in the Co. Co. and that who demands control country are presented to some gains on the control county and the control country and the control country of the country of the control country of the country on the country of the country on the country of the country on the country on the country of the country of the country on the country of t

	Willing to have examination	?
	IN MILLIAN (4)	
207.	Think you for your co-operation. I shall be contesting you again within the ment wask or two. It is not possible for me to note an asset appointment but could you say,	
	(i) at what time of day you prefer we to call? Afternoon. Stepling	. 2 3
	(ii) and if there are any days of the week which would definitely not be emissis;	
	P. Salling and S. Sal	
	The second secon	
	to the state of th	
	IN ROS WILLIAMS (8)	
100.	HOTE ANY SPONTANEOUS CONSLICES	
	The second secon	
	· Hitching and the state of the	
109. <u>P</u>	on record to be manuscript (2) Engagement or respected	1
	In EXPERIMENTAL ROLL CHARGES (0)	
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	The principalities and the state of the stat	

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	4000E10EEEEE	
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	PRITTAL PROTURES	
	SHOULT OUR 3	
784.2	the to talk to you first shout your con tooth	
	people have a lot of trouble with their natural teeth, on were to)	
Yten	you are enting chocolates or sweet things do you get any	
snive	ee of toothacte?	
	Nas txingee Toes not	2
	ou were to)	
(b) When	you are eating an ice crees, or drinking a very cold drink this make your tests ashe?	
	this make your tests accer	6
(e) Somet	times if there are any holes in your teeth you can feel them with tongue. As far as you know are there may hales in gang teeth?	
jon	Helme	7
(d) Yhan	you are eating do you ever avoid using any of your natural	
testi	i for my reson?	
	Yes	4
	17 TES (3)	
(1)	Can you tell me for what reneme you sould them?	
(A)	7.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	
12. Over the	heat five years, have the gaps between your natural teeth r at all, or not?	
gov water	Cape got wider	1
	Not	*
13. Over the	last five years, have your natural teeth come to look	
longer t	han they used to, or not? Teeth look longer	4
	Do not	5
14. Do ver 1	hink that any of your natural tooth are at all loose?	
	Airs that any or your natural tests are as all losses. Tes	

15. Apart from incomine with their matural teeth come people have broadle with their gums.	
(m) De your game ever feel zore or tender? Yes	::::: 2
(b) Do eay parts of your gams ever lock or feel evoller, for instance around one or two teeth?	A
IP TES (A)	
(i) To they back or feel meellen just consistently consistently or fairly often? Evellen just consistently Swollen fairly often	5
	-
(c) Do year game over bleed? Yes	
16. Do you have any kind of trouble with your goes or mouth which I haven't mentioned?	
	9
(1) What port of treable?	
	**
W = 100 n(x) 1000000 (x) 2 2 2 1000 (x) 1000 (x) 1000 (x) 1000 (x) 1000 (x)	
A CONTRACT OF THE PROPERTY OF	
17. If you were to go to the desilet temorrey, so you think you would need more transment, or no transment at all?	
Some treatment	:::::: å
D D SING THUMBER (A)	
(1) En many teeth would need	1
treatment do you think? <u>Number</u>	
WITE IN ANY ORDER ANSWERS	
	-
equil. He minimum (ac. o	-
The state of the s	
Marie Committee	

15.	(a) If you went to the destiff with an aching hard booth would you prefer the destiff to take it out or fill it?
	the denist to them it one will be a set of the set of t
_	Fill 15
0	Other (SPECIFT) 3
	and the state of t
	(b) If you went to the decitat with an aching front tooth would you prefer
	him to take it out or fill it? Take it out
	1111 it 5
	Other (SPECIFE) 6
	7
	(a) How long would you expect a filling in a tooth to last? Would you
	A year
	5 years
	10 years
	mil a service
-	
19	
	D.S.h.
	0. (a) A lot of people eventually have to have full dectures; do you find the thrught
8	of having all false teeth
	very uporting ?
	a little upsetting 8
	not at all upsetting? 9
	21. Do you know how much it costs you nowadays to have a full set of false teeth
	St 4
	DE THE (A)
	(a) Bay much does it court?
	(1)
	The second secon

22. We wi	unt to find out from people who were at least 20 before the war (1939), how got their dental treatment in the Goys before the war.	
(Csa	I sheek) were you burn hefore 1919? Norm hefore 1919 Not	. 1 . 0 Ge to
	IF BORN BEFORE 1919 (1)	
(0)	When you had a tooth that needed socian to, in the days before the war, dud you go to a destist, or a heapital, or did you go commune else?	
	Demist	3
	Seth	5
(1)	What were your rescons for chassing to go to?	
(6)	Defore the war did you over belong to a Priesdly Society, Denefit Society, Approved Society, limitudes Group or cimiler organization?	
	Tee	1
	IF YES (1)	
(1)	What was the name of the one you belonged to?	
	The second secon	
(11)	Btd this organisation help with denial expenses?	7
	10 b.E	3
(a)	In the days before the war did you ever get any help iswards the cost of decial treatment, or any free deats) breatment?	
	Help or free	6
	IF HELP OR PRODE (A)	>
(1)	Where did you get this from?	
		ĺ

			eur zatural tee	ney Bow?			Never	00
	4 (100) m							
(6) At w	chet time	of day do yo	u clear them?	RTING ALL	3.55	er hrenkfas	** *	2
				SPOOTABLE BROITIDM	ILY No.	time er evening t thing at	menl	3 4 5
IP N	OFFICE E		TIS DEFORE OR .				,	7
(a) Do y	roti use t	oothpaste, to	othpowder, or	semething else	to eleas	year neture	1 teeth?	
						Toothpast	eer	2
			001P0V368 (1 0					ļ
(1)	Was p	articular mak	s are yes tolo,	17				i
600	Dres 1	anntain Clu	cride, or not?					
							Yeo So D. K.	6
(d) Is y	our toos	shrush nade o	f bristle or s	rlon?				
						2	ristle ylon .K	;
(e) When	at was:	er, was your	toolbhrash, bas	d, sedius op	oft?	Nadium Seft	ry bard	7
(f) Propi	le slean	shelr teeth :	in different we	ys, and some :	wards war	e aut teath	muchas.	9
(f) Propi quick	lo slenn Kly and	their teeth :	in different we lowly. About h	ys, and some ; ow aften do ye	wards war	e aut teath	muchas.	9
(f) Propi quick	KLY and	Hemo people a	in different we lowly. Short h	ov aften de y	oogte won	r out toothin	crushe e	9
(g) Could	t you ge	tend that yo	lexly. Short h	ov aften de y	oogte von	r out toothi	crushee ash*	9
(g) Could	t you ge	tend that yo	herly. About h	ov aften de y	oogte von	r out toothi	crushee ash*	9
(g) Could	t you ge	tend that yo	herly. About h	ov aften de y	oogte von	r out toothi	crushee ash*	9
(g) Could have 3	f you pro	tend that you co	herty, theat h	ow often do y	Defy	out toothing too the same toothing too the same toothing you show many too the same too the same too the same too the same too too the same too the	crushee ash*	6
(g) Gould hav 3	f you proyou use !	tend that you did not you did not you did not not the you did not	there a touth	ov often do y	Defi	r out testible rest testible you show m intely seem ship income s	mustime a sala? 1 2 2 met 1 3 met 1 6 6 6 meet	6
(g) Guild brw 3	f you proyou use !	tend that you did not you did not you did not not the you did not	tore a touth	ov often do y	Defi	r out testible rest testible you show m intelly seem shilly income shill income	muddee	6

27.

28 29

K

27. (a) Her	re you hern to the destint state the beginning of December, Table treatment now to should amonths ago? To	9
	IF NO (A)	10 A 1
(6)	Harr you been to the destist since last May (June), that's about a year ago? To a	2
	27 NO (B)	3
(+)	About hey long ago was	
	your last wisk to the destiot? Nore than 1 up to 2 years ago	3
	your last winds to the destion?	5
	Ecre than that (SPECIFT)	6
26, The le having reason	Trouble with natural teeth	4
	Check up	
	- Other (oracle)	
19. (a) In	s general do you go to the dustist for	
	trouble with your teething.	:ar- 9
	IF GODS FOR RECYLAR CREEK UP (7)	
(6)	Does the dentist send you a regimber when it is	
	time for you to go for your next check up? Tee	2
(0)	Do you make the appointent for your next check up	
	at the end of your last not of treatment when the dealist ends you a reminfer or when you feel it's time to go applia? other (SYSCITY)	5
	1.1	
	IF GOES FOR COCASIONAL CHECK UP (8) OR CELT WHEN HAS TROUBLE (9)	
(4)	The last time you would to see a destit how far about did you have to make the appointment with him, ease you wasted one?	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	TP CHIT DOES WEST HAS DECURAT (9)	- 011
(a)	What is the main reason for you not going for a regular check up?	
(1)	WILL IS SEE BELL PRINCE FOR YOU GOING LOVE A VEGLER COME SO!	
	10	

30. When	people go to the destint for a check up, or because they've got trouble wi h, they constimes have to make one visit and scortimes more than one visit.	th their		
	The last time you went to the deptist did you make one visit or several vis			
(4)		1414	٠,	
	Server	al	î	- 1
	IF SEFERAL (A)			
(6)	About hew many wisits did you make for that course (set) of treatment?			-
				1
	personal transfer and the second seco			- 1
	- Surgaria Mas anno managaria Ara a managaria a managa			
				_
		SPORTANEOUS	19.0075	180
what	did you have done?		Tee	Ko .
	Enginetics (check)			
		6		
	No. of fillings Fillings (stoppings)	1	2	3 -
	No. of teeth Extractions (teeth out)	6	7	6.
	Scale (clean, ecrape) and polish	1	. 2 ,	3 .
	Fitting of new dentures	6	7	. 6 .
	Repair of old dentures	,		,
	Other (STECUT)	0		
				-
32. Vac	your treatment provided under the National Health Service or was it private	17		
	Mational Health Ser	rire	1	
	Private		2	
***	Other (Deciri)			
			-	
33. Ceal	id you tell me how much the whole treatment cost you?	Tes	¥	
	IF THE (A)	av		
(*)	Now much did 16 cost?			
			<u> </u>	_
	Did you feel very fatisfied, fairly satisfied or not satisfied with			
	the treatment you had? Youry satisf	ied	7	
		efted		
			···· /	_
(b)	What was it shout the treatment that made you feel (se above)	2		
		(0		
) les 1000 0 1 1000		

775 5	here a particular decitat (or group of partners) whom commiting go to, or do you go to a different decitat time you need treatment?
	Venally mane destint (or group) 1 Different
	IP USUALLY SAME DESTINE (1)
(a)	What is the address of the practice?
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(b)	about how many miles is it from here?
(e)	What's the name of the dentist you go to?
(4)	Do you usually go to him direct from
	home or from work?
(+)	Now long dose it usually take you to get there?
(1)	Now did you come to choose this particular dectiet?
	TOTAL TOTAL OF THE STREET, THE
(a)	What do you like about your dentist? (RECORD SPONTANEOUS BISLESS)
	with the second of the second

(b)	If you stay in this district will you continue to go to the
	destint you go to now, or will you have a change? Continue E Change 9
	IF CHACE (9)
(4)	That are your reasons for wanting to change?
	IF 4083 TO BIFFERENT BESTISTS (2)
(1)	Is to difficult to get an appointment with a dentitet?
	with the second control of the second contro
(k)	Why do you shange your dentist?
(4)	A se has stade has assessed
	In a separate state of the second of the sec

35. Exclud	ing the school destist, about how many vest destints have you been to in your lifetime? Humber
	IF HOME TRAFF OFF
(6)	If more assections Tow many of these changes occurred because year wanted to try a different doublet?
36. (a) E	we you ever had an injection to kill the pain the he'ling a touch filled? The 2 Ever had filling 2
(b) II	are you ever hed an I-ray taken of any of your teeth? Had I-ray
	you ever been sent, by a denties, to a hospital for dental trestages? Tes 1
37. Have	
	17 TES (1)
(t)	Now long age is it eines be
	ent you to the hospital? (LET COLLETO) time ago years souths (IF LESS THER 2 TAINS)
(11)	Why did be send you to the beentled?
	(1) Institute (IIII) (III) (IIII) (III) (III) (III) (III) (III) (III) (III) (III) (III) (IIII) (
35. (a) ¥	hat do jug find most unpleasant during a wintt to the dentiet?
1	· · · · · · · · · · · · · · · · · · ·
	(6) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7
	The state of the s
	hat mort of qualities do you think make the best destiste?
(0) 8	(set of person)
	*

t	would like to talk now about your partial desbures (false	Gettly
50. (a) A	re your doctures on a top plate, a bottom plate, or both?	Poston only 2
	IF for OULY OR EOTH (1 OR 3)	Toth
(1)	Is the top plate mide up of mainly front teeth, mainly back teeth, or is it a full top set?	
		Mainly front teeth
	- Harrison Artes - 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Other (SPECIFT)
(e)	IF SOTTOM ONLY OR BOTH (2 OR 3) Is the bottom plate mids up of mainly front teeth.	
(4)	minly back teeth, or 50 it a full bottom cet?	Mainly front teeth 1
		Fainly back teeth 2 Full bottom eet
		Other (SPECIFY) 4
(0.51 = 3	F.I.)	
52 , Do ye	a unually keep your false teeth in at might? E	eps teeth in at sight 4
	Be	see not
-		
	one people have difficulty in wearing their destures (fal- o you wear your dentures from the time when you get up to	
		All the day time 6
		Not all day 7
(6)	IF 500 ALL DAY (7) When do you wear then? (OTHE REASONS)	
(0)	wise to you were themy (of it loadstat)	
		Oleane Oleane Annual An
(0)	When do you not wear them? (\$2VE REASONS)	
	100	
	**************************************	Charles I am
		(-q-q1)-()
		part of the state

55. How long have you had the set of teeth you have now? yeare southe (IF LESS THAN 2 TRADS) 56. Some people are fortunate with the fit of their false teeth and some people are not. Then you least do you have any difficulties with your false teeth? Tee A (1) What sept of difficulties? 57. When you yarn do you have any difficulties with your false teeth? Tee 2 TF TES (B) (1) What sort of difficulties? ... 55. Do you have my difficulties with your false teeth when you are talking? Tea 0 IF THE (C) (i) What cort of difficulties?

59.	Teel.0	you have any difficulties with your false teeth if you were shawing mean?	
		Tee Eo	D
		IF TES (D)	
	(1)	Yas cort of difficulties?	
		(1) Makematical (1) Processing (1) page 11 and 12 a	
60.	Would hite	you have any difficulties with your false testh if you were to into a row excit? Yes	z
		TP TES (K)	0
	(1)	What work of difficulties?	
		10 800 800 8	
		- 1, and a 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		* Manufacture (Control of Control	
61.	Are t	there may other things you find difficult to do with false teeth? To	
	(a)	TP THE (P) THE ARE they?	
		#2/f###################################	
		· · · · · · · · · · · · · · · · · · ·	
		A CONTRACTOR OF THE PARTY OF TH	

	also tooth at the top, and false teeth at the Botton essetimes hive different courts of differentias, so can I talk about them expanately.	. 1
c	RECE WHETEN PARTIAL DESTREES AND OF TOP PLATE, BOTTON PLATE, OR BOTH 9,50 PAGE 11	
	197	
62. (a) I	a the last <u>structure</u> have your too false testh burt or made your mouth sore, or post?	
	Yee	A
	To	9
	IF THE (A)	
(i) In that mayo?	
(b) 2	n the last <u>els positio</u> have your <u>betten false teeth</u> burt or made your south	-
	more, or mot?	2
	No No betton plate	9
	IF THE ON	
	1) In that ward	
61. (4) 4	re your too false teath loose (clack), or not? Tee	1
	To top plate	2
	Other (SPECIFF)	4
60.1	ira your bottom false teeth loose (slack), or not?	-
6-7	Tee	6
	Other (Securi)	9 .
64 9000	type ony that, on the whole, you are very extincted, fairly ratiofied,	
66 D	at estimated with the way your false tests fit?	
	Very estisfied Painly estisfied	1
	You entisting	3
	IF PAIRLY DATISFIED OR NOT SATISFIED (2 OR 3)	
(1)	Ire you planning to wisit the destite to ess if anything can be done to improve the fit?	
	You	8
	lia	9
	IF NO (9)	
(11)	Why 2007	
		1
	A CONTRACTOR OF THE CONTRACTOR	
	and community on the following state of the community of	

99.	(a) !	for old were you whom you had your first false teeth on a glate?		
			<u> </u>	_
	(b)	Did you need your first falos teeth sminly for the make of appearance or sminly to help you to eat?		
		Mainly for make of appearance		4
		Mainly to help you to est		5
			L.	
	(e):	Now many mars of your own tests have you lost since you had your first false tests on a plate?		
		Suther ,		
			_	
	(d):	Now many sets of partial destures here you had? One set only	Ι,	***
		on are may 111.		9,72
				Page 17
		Softer		
		ALIAN 111.1111	····	_
			-	
		IF MORE TRANS COSE		
	(+)	Were the first false tests you had on a top glats,		
		a bottom plate so both? Top only		ż
		30th		3
			_	
		IP TOP OSLE OR DOTE (1 OR 5)		
	(2)	Was this top plate ends up of mainly front teeth,		
		mutually back tooth, or was it a full top met?		
		Mainly front teeth		6
		Mainly back teeth Pull top set		
		Other (SPECIFT) ,,,,,,		9
		IF ROTTOM ORLY OR ROTH (2 OR 3)		
		Was this bottom plate made up of mainly front testh,		
	(a)	was this bottom parts mans up or mainly from terts, mainly back testh or was it a full bottom set?		
		Water from tout		,
		Mainly front teeth		ž
		Fill bottom set	.::	3
		<u> </u>	Ц.	

	IF MOVE THAN ONE SET OF PARTIAL DESTRUCES - COST.		
(h)	Edd yws here your record red of partial dectures becomes the or becomes you had essenter tests cut, or was it for ease of repeat twill comment all sets of restrict returns.	first set broke, her remeal?	
	251	let set broke	2
	2r4	2ml set broke	5
	415	3rd set broke	
	and the second s		

70.812	
(0.65 - 71 - 3.8.k.)	
72. End you get all your sets of destures through the Notional Realth Service or did you get them privately? (IF SEE OF ELCH FIED OF NOW MAY OF ELCH)	
Jil Britani Boulto Serries	2
(0,7) - 60 - 50.54.a) 55. (a) To you find that it is difficult to keep false tests clear or unit Te To	1 0
(b) for eften do you clean your false tamb?	
(a) So yee each those, or said Sank then	A
(4) Do yea boath thee, or odd? Truther thee	3
(n) he you do anything also to leasy three clean? 27 TIE (n) (n) What do you def	0
(4,60 = 3.5.4.) No. for three may prints or commonie you would like to make about hering (partial) desirests Re	0

CLASSIFICATION

TOALL

	32.	(a) Eslationship to Informat	(b) Sex	(e) Age last biribbar	Mari	(d) tel Stel	14.6	Saple	(a) greent St	ntus
INT.	30.	Relationship to Informat	х г		ж	s	γ	2	P	3
BOH.	1	INFORMAT	1 2	D. of B.	3	4	5	7		9
	2		1 ?		3	4	5	7	a	9
	3		1 2		3	4	5	7	8	2
	4		1 2		3	4	5	7	8	9
	5		1 2		3	4	5	7	8	9
	6		1 2		3	4	5	7	8	9
100. At which age did your finish field these shoulders 1										
315.	JE:	TENT NO.			-			_	+	\dashv
		IS S. C.S. THE IS	1)					Tes .	#	. 0
		(A) AND THE LAST RE	DEAT TOUR	POLITICE AS	ED 16-21 27	3	cong per	****	-	: 3
			T TOURS FED	12003 (2)						
	(LLL) PUREST ASSAURE TO EXTENSIVE ALL TOOMS ARED 16-02 HOT STREET THEO INTERSIES STREET.									

126, The Hinney of Smith is belowed in booding short projects bettle on the 14 can tall who dealed norman are required. As with a boding intereded in all any place and done, you means the Hinney's a less incorrected in now thing with subject dealed beautiful order of the Companies of the Compan

	would take lose than 5 minutes, not nearly so long as I have been talking to yea. The destist would not undertake gay treatment, and the results of the examination would be completely confidential. The results would be used by the Ministry to estimate the need for desiral tyrateast throughout the
	country and the number of dentirte that would be required to do it. Would you be willing to have this
	examination?
	Filling to have examination 7
107.	IT WILLERS (7) Thank you for your op-operation. I shall be contacting you again within the mast week or two. It is not possible for me to make an exact appointment but could you say, Tee So
	(i) at what time of day you prefer us to call? Moraning 1 0 Afternoon 2 3 Section 4 5
	(11) and if there are any days of the week which would definitely not be suitable?
166.	IF NOT WILLIAM (6) NOTE ANT SPORTANCIS COMMENTS
	The state of the s
_	
109	POR TROSE TO BE EXAMPSED (7) Examination completed
	IF EXAMINATION NOT COMPLETED (0)
	CIVE SILECES

DESCRIPTIONS AND ADDRESS OF THE PERSON NAMED IN COLUMN NAMED I

QUESTIONNAIRE	Area So.	Serial 1
HAS LOST ALL MATERAL TEXTS		
PRODURT CODE 4	1 1	1

Zerese No.

		Not	9
	1F NOT (9)		
(1)	Hare you ever had any false teeth?		
			_
(11)	Why haven't you got a set of false teeth (now)?		
	07 TD 9-65 Page 4		
	0 10 400 100 4		_
Do you	urually keen your destures (false teeth) in at steht?		
Do you	unually keep your dentures (false teeth) in at sight?	Erone teath to at atch	
Do you		Ecops teeth in at might	
Do you		Koeps teeth in at might Does met	
(a) Sc	ome people have diffiguity in wearing their dealures (f	Does not	
(a) Sc		loe teeth) all day.	
(a) Sc	ome people have diffiguity in wearing their dealures (f	Does not	
(a) Sc	one people have difficulty in wearing their deniures (fr pps wend your teck from the time when you get up to a	loe teeth) all day, ten you go to bed?	
(a) Be	one people have diffficulty in wearing their denters (fr year were your tests from the time stem you get up to a 17 NOT ALL DAT (7)	loe teeth) all day, ten you go to bed?	
(a) Sc	one people have difficulty in wearing their deniures (fr pps wend your teck from the time when you get up to a	loe teeth) all day, ten you go to bed?	
(a) Be	one people have diffficulty in wearing their denters (fr year were your tests from the time stem you get up to a 17 NOT ALL DAT (7)	loe teeth) all day, ten you go to bed?	
(a) Be	one people have diffficulty in wearing their denters (fr year were your tests from the time stem you get up to a 17 NOT ALL DAT (7)	loe teeth) all day, ten you go to bed?	
(a) Be	one people have diffficulty in wearing their denters (fr year were your tests from the time stem you get up to a 17 NOT ALL DAT (7)	loe teeth) all day, ten you go to bed?	
(a) Be	one people have difficulty in wresting their dentures (for your wave your tests from the time steen you get up to v 27 MR ALL CAST (7) Then do you were these (GIVE SQARSES)	loe teeth) all day, ten you go to bed?	
(a) Be Do	one people have difficulty in working their dealers (ff. 79% were powerful from the time deal year and up to be at the second of	loe teeth) all day, ten you go to bed?	
(a) Be Do	one people have difficulty in working their dealers (ff. 79% were powerful from the time deal year and up to be at the second of	loe teeth) all day, ten you go to bed?	
(a) Be Do	one people have difficulty in working their dealers (ff. 79% were powerful from the time deal year and up to be at the second of	loe teeth) all day, ten you go to bed?	
(a) Be Do	one people have difficulty in working their dealers (ff. 79% were powerful from the time deal year and up to be at the second of	loe teeth) all day, ten you go to bed?	

55. How long have you had the set of teeth you have now?

_		(15. FESS 4509 S			
Now people are fortunate with the fit of their teeth and some people are not.					
56.	When (s)	you hash do you have any difficulties with your teeth? IF THE (A) What sort of difficulties?	Tes	A	
_		190000000000000000000000000000000000000			
57.	Vite	you years do you have any difficulties with your teeth?	Top	8	
	(\$)	P IIS (B) What seet of difficulties?			
_		18 th 1800 to the community of the com			
50.		n have any difficulties with your teeth when you are <u>talkine?</u> If TES (C)	Tes	c	
	(1)	What seet of difficulties?			
_					
59-	¥ould	Lyon hore any difficulties with your false teeth if you were <u>charing ment?</u>	Tee	D	
	(1.)	IP TES (5) What eart of difficulties?			
60.	Mouto hite	you have any difficulties with your false teeth if you were to into a raw apply?	Tas		
	(1)	IP 123 (2) What over or difficulties?			
61,	Jre t	here any other things you find difficult to do with false teeth? IF TES (P)	Yes	?	
	(1)	Yhat are they?			

Top teeth and about them so	t bottom teeth momentumes give different morts of dif- operately.	Ticulties, so can I talk
62. (a) In ti	to last <u>sig months</u> have your <u>too testh</u> hart or made :	your mouth core, or sol?
(1)	IF YES (A) En what ways?	Tes A 30 0
(b) In 60	ue last <u>six months</u> have year <u>hotique testh</u> hart or sa	de your maith more, or mat?
(1)	IP TES (1) Es vhat veyrs	35
	pour too testh loose (slack) or not?	Tes
	pour holion testh loose (slack) or not?	Tes
64. Would you not a	sany that, on the whole, you are very satisfied, fa stirfied with the way year false teeth fit?	1
		Fairly matisfied
(s) A	FRIER MATISTED ON NOT SETIMETED (2 OF 3) re yes placeting to visit the destite to see if sything can be dess to improve the fit?	Ted 3
(11)	IF NO (9) Visy not?	

65. Ve w they	wash to find out from people who were at least 20 hafore the war (1939), how a got their dental treatment in the days lefter the war.	
(Can	tI chock) were you been before 19197 Born before 1919	
	IF NOW HEFORE 1919 (1)	q.66
(a)	Year yet had a torth that reeded seeing to, in the days before the war, did you go to a dentist, or a hospital, or did you go computers else?	
		3
	Bentieb	4
	Other (SPECIFY)	é
(1)	What were your reasons for choosing to go to?	
	m	
(b)	Defore the var did you ever halong to a Friendly Society, Benefit Society, Approved Society, Insurance Group or similar organization?	
	Tee	1
	17 TES (1)	0
(1)	What was the zame of the one you belonged to?	
(11)	Did this organization help with dectal expenses? Tee	-
	Did this organization help with dectal expenses? Yee	6
	D.X	9
(a)	In the days before the war did you over get any help towards the cost of decial treatment, or any free death, treatment?	
	Help or free	4
	IF HELP OR THEE (4)	5
(1)	Where did you get this front	
- 1		
1		
ı		

in, How many years ago did you have the last of your own teeth taken out? 69. Now old were you then? years - 00 TO Q.76 Page 10 - LAST TREES OUT DURING M.H. S. When you had the last of your own teeth out did you already have a Had part set 6 Ead not 7 Co to IF HAD TART DET (6) Now old were you when you had your first false teeth on a plate (part set)? Did you need your first false teeth mainly for the make of appearance or mainly to help you to emi? Mainly for make of appearance 4 Nainly to help you to eat 5 Were the first false teeth you had on a too clote. on a bottom plate, or both? Top only 1 Bettom only 2 IF TOP ONLY OR BOSH (& OR S) (4) Was this top plate made up of mainly front teeth, mainly back teeth, or was it a full top get? Nainly front teeth 6 Nainly back teeth 7 Pull top set 6 Other (SPECIFY) 9 IF BOTTOM ONLY ON BOTH (2 OR 5) Was this bottom plate made up of mainly front teeth. mainly back teeth, or was it a full bottom set?

CCST.

Mainly back teeth 2
Pull better cet 3
Other (SPECIPT) 4

- LAST TREES OUT DURING NAMES. 22. | 5087. IP EAD PART SET (6) One set only I Go to How many part note did you have before you had your first full eet? Busher IF MURE THEN ONE PART SET Did you have your <u>second set</u> of partiel destures because the <u>first set</u> brokes, or because you had some more teeth out, or was it for some other REPEAT UNTIL CONSIST ALL SETS OF PARTIAL DESTRICT lst set broke k End more teeth out 2 Other (STEELPY) 3 283

	TO ALL (A) 's
71.	Bow many full cate of teath have you had altogethey? Eucher
	IF EINE THAN CIE
(1)	Why did you have to have new onse?
72.	Did you get all your full sets of false teeth through the Neticeal Realth Service.
	to man Ant Gar apen becamper At. (It store on swell hard out now went on 6700)
	# ### ################################
	Sees of each (SPECITY)
73.	While you had your com teeth fid you go to the dentist for regular check upe, occasional check upe, or only when you had trouble with your touth?
	Bernier steck use
	Occasional checks 6 Only when had trouble with toeth 9
74.	To you know why the last of your teeth had to be taken out? Yee A
(1)	IF TRO (A) Why did they have to be taken out?
	() () () () () () () () () ()
75.	Did you magnet to the dentist that the last of your tests should come out, or find by suggest this to you?
	Tou magneted to deptirit
	99.

	(1)
	TO ALL (A) 's
76, (a)	When you lost the last of your cun teeth, before having your full false set, how many teeth were there to be taken out?
	Number
	Nuber
(p)	Were these all takes out together or were they taken ext ever a series of visite?
(e)	314 the same destint who took out the last of your teeth fit your destrates?
	IP NO (A)
(1)	Thy set?
(d)	New long after yes had the last of your een teeth est did yes here your false teeth?
17-	Cun we falk shout the decises who task out the last of your own tooth. End you been to him before or was this the first time you had been to him?
	Deen before 1
	IF FIRST TIRE (2) Pipet time 2 (a) Did you have any difficulty in finding a decitet who would take you?
~	
90 TO 0	n and a second
	285

	(B) - ALL TREES OUT DEFORE N.T. S.
70.	When you had the last of year own teeth cut, did you already have a part set of falce teeth or not? Hed part set
	already have a part set of false teeth or met? Hed part set
	IF NUO PART SET (6)
(1)	How ald were you when you first had
	false teeth on a plote (part set)? years.
79.	When you had the last of your own teeth out did you support to the dentist
	that the teeth should ecce out, or did he suggest this to you?
	Ton suggested to destinct
	Other (SPECIPY)
80,	Can you remember how much you paid for your first, full set of felse teeth?
	Tes A 80 0
(1)	How much did they sort?
51.	
***	New many full sets of false teeth lare you had, altogether?
- 1	Nuclear
	IN MORE THEN COR
(i)	Why did you have to here now come?
- 1	
1	
1	
- 1	
- 1	
- 1	

62.	How 1	teng ago did you lost go and see a dentiat?		-	
		PROMPT IF HE NECESSARY N	p to 5 years ago (SMELIFI)	. 3	
	(a)	The last time you wanted to see a destirt how far	r ahead did you		
		here to make the appointment with him, once you	Matted 0347		
				-	
	(9)	For the treatment you needed at that time did you come, or several times?	u visit the destist		
			Onep	., 1	
		IF SEFERAL (A)	Spwerel	A	
	61				
	(5)	About how many visits did you make for that o	ourse (sec) or treatment:		
				. 11	
	(0)	In (all) the wisit(e) you made to the dentist (f tyestment) what did you have done?	ne that set of		
		, , , , , , , , , , , , , , , , , , , ,		Tès Bo	D.E.
			animation (obsek)	Ten No	D.E.
					Г
			tractions (teeth est) 6		
			tting of new dentures 6		
			pair of old dentures 1	. 2 3 .	
			her (SPECLPY) 0		
				1	
	643	Was your treatment provided under the National Health Service or was it private?			
			Setional Semith Service Trivate Other (SERCET)	2 2	
		the state of the s	Diner (SPECIFT)	3	
					1
				<u> </u>	1
	(+)	Could you tell no how much the whole treatment of	ont you? Ten	A	
		IF THE (A)	**	7	1
	(1)	Now much did it cout?			
	(1)	Bid you feel very entiofied, fairly entiafied or	not		
		entirited with the treatment you had?	Very natisfied	7	1
			Fairly satisfied Not satisfied	8	1
	(1)	What was it about the trestment that made you for	el?		
					1

TO ALL	
66. What eart of qualities downor think make the best destiste? (sort of person)	
Helenson (* 1 1 1 1 1 1 1 1 1 1	• 000000
09. (a) Do you find that it is difficult to keep falce teeth clean or on	17 Yee 1 No 0
(b) Bue often do you clean your false teeth?	
(a) Do you mank them, or not? If SORES THEM (A)	Scale than A Not 0
(1) What do you soak them in?	
(4) Do you brush them, oy not?	Brushee then B
IF SHIRLES THIM (0) (1) What do you brush them with?	
(e) he you do anything else to keep them clean?	
IF TES (C) (1) What do you do?	Tee C No 0
95. Do you know how much it would cost you neverlaye to have a full set of false teeth unfer the National Health Service?	Yee 3
IF YES (5) (i)	
91. Are there any points, or comments, which you would like to make about having false teeth?	яе 0
* 1 *** (***)	

CLASSIFICATO

80.411		

101.	_										
	Xo.	(a) Relationship		b} ex	(c) Age last birthday	Mar	(d) ital Stat	es.	Engle	(e) mest St	drae
NIT RING	L	to Informaci	ж	r		ж	8	¥	2	r	2
NUM NO.	1	237 0136317	1	2	D. of B.	3	4	5	7	8	9
	2		1	2		3	4	5	7	0	9
	3		1			3	4	5	7	a	9
	4		1	2		3	4	5	7		9
	5		1	2		3	4	5	7		9
	6		1	2		3	4	5	7	a	9

102. 8	t what ago did you fi	nish full time education?	14 years or unior 1 15 years 2 16 years 2 17 years 4 17 years 5 19 years 6 19 years 6 19 years or over 5 19 years of 6
113,	OCCUPATION	of elements of the time that you is supported by INDISTICS	finished your education?
	AE 18 the occupation IVE OCCUPATION AND IN		1-
11	DITTI	***************************************	
05. <u>IE</u>		O.R. THE INFORMATY IF THE (1) ALL THEIR ANY FOUND PRESENCE AGES 1 LAST REPRESENT IN THES BOUNDEDOLD?	Tea 1 No 0 5-21 Toung persons 2 Not 3
	(111) (11)	IF ARY TOURS PERSONS (2) HOW MADE PLEASE ASSUMED TO DIVERSISH ALL AGED 26-01 HET PURSUEN THIS SEVEN	THOSE

6. The Ministry of Smill is interessed in tention of the project decrease as that it is not cell activate the project with Table in the three objects the time in relative that they are stitled to the present in a relative that the incident the same in the

PP-1-1-3	as tadition to do to: south hot to atterned to make cuts amounts to the	
	Willing to have meanination	7 8
.77.	If Williams (7) Take you for your ecoperation. I shall be conserting you again within the ment was or two. It is not possible for me to make an exact appointment but would you say, (1) at what time of day you prefer me to call? Marrians. Afternoom.	. 1 0
	(ii) and if there are may days of the week which would definitely not be exitable?	1. 4 ś
	UP NOT WILLIAM (0)	
16.	FORE ART SPORTSMEADUR COMMUNITS	
	-	
09,	FOR THOSE TO BE EXAMINED (7) Examination completed	1

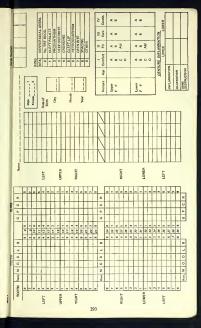
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